

# Student Collapses After Marathon

By Marie Y. Thibault  
ASSOCIATE NEWS EDITOR

An MIT graduate student has been recovering from kidney failure at the New York University Hospital after completing the New York Marathon on November 6.

Annette M. Hynes G is receiving dialysis three times a day, said her sister, Lynnette Hynes. She is still nauseous and does not eat much, but takes walks around her hospital room, Lynnette M. Hynes said. Complete recovery typically takes one to two months, but it is not known whether Annette's kidneys will sustain permanent damage, she said.

Richard J. Lehman, Annette's uncle, said that she collapsed after completing the marathon and was first taken to the Intensive Care Unit of the New York University Hospital. She has been diagnosed with rhabdomyolysis, which occurs when skeletal muscles break down and release myoglobin into the bloodstream, which is harmful to the kidneys. One of the risk factors listed by the NYU Medical Center Medical Dictionary is "extreme exertion, such as running a marathon."

Marathoners who suffer kidney failure usually do not sustain permanent damage, but Annette's condition does not fit the typical marathoner's profile. The muscle breakdown level and red blood cell count in her bloodstream were below the levels that usually cause kidney failure in marathoners, Lynnette Hynes said. Doctors are looking for possible pre-existing conditions that may have resulted in the kidney failure.

Lehman said Annette also has hypovolemia and hyperemia, respectively an abnormal decrease in the volume of circulating blood, and an

Hynes, Page 17

## In Short

¶ The monthly faculty meeting will be held this Wednesday at 3:30 p.m. in 32-141. Agenda items include a progress report from the Task Force on the Undergraduate Educational Commons and a report from the Special Committee to Review the Nominations Process.

¶ The Task Force on Medical Care for the MIT Community has released its final report. The report will be discussed at Wednesday's faculty meeting and is available online at <http://web.mit.edu/task-force/medical/index.html>

¶ Green line service to Science Park and Lechmere resumed on Saturday Nov. 12. Service had been closed since summer 2004 due to construction.

Send news information and tips to [news@the-tech.mit.edu](mailto:news@the-tech.mit.edu)

# Most Katrina Students Leaving in Spring

By Angeline Wang  
STAFF REPORTER

As schools affected by Hurricane Katrina prepare to reopen, the 10 displaced undergraduates hosted by MIT this term are also making plans for their next semester. The four seniors will be returning to their normal colleges to graduate, but plans for some of the remaining six are less certain.

MIT waived tuition and fees and provided housing for the visiting students, who came from Loyola, the University of New Orleans, Tulane, and Xavier.

"At this point, [the four seniors] are making plans to return to their home institutions and are generally in contact with their respective advisors in Louisiana," said Julie B. Norman, associate dean of academic resources. "Now that the seniors' situations are clarified, I will meet with the other six students to assist as necessary," Norman said.

While some students are looking forward to returning to their universities, Luke H. Harris '09 said he would like to stay at MIT.

"I like it here a lot" said Harris, for whom MIT was originally a first choice for college. "I have met a lot of good people. The classes are tough, but it's worth it."

Since Harris had only just arrived at Tulane for his first year when he was evacuated, he is in a different situation than some upperclassmen.

"Seniors are mostly worried about graduating. Others want to see their friends," he said.

"Right now, I'm just taking things a little at a time to see where I'll be next semester," Harris said. He said he believes that even if he cannot stay this spring, he will be able to return to MIT as a transfer student next fall.

## Students enjoy MIT experience

The visiting students have generally found life at MIT to be enjoyable. All are doing well and are "particularly resilient," Norman said.

"My MIT experience has been great," said Kate A. Babineau '06 from Loyola. "The MIT community has been extremely welcoming, and I already feel comfortable here. My classes are interesting, and I enjoy what I'm learning."

Babineau, one of the two visiting students who chose to live off campus with family, said other than the hour-long commute, "my living situation is great."

However, "I miss New Orleans a lot, and I look forward to the day when I can go back full time," Babineau said. "I visited two weekends ago for the first time since the storm, and although the city is still in rough shape, it seems like people are really trying to regain a sense of normalcy."

"So far my MIT experience has

Katrina, Page 10

# MIT Tackles Nanotechnology Research

By Benjamin P. Gleitzman  
STAFF REPORTER

Researchers at MIT are at it again, this time challenging the old maxim that bigger is better. According to faculty and staff at the newly-devel-

oped Institute for Soldier Nanotechnologies, the soldier of tomorrow will rely on materials and systems built on the nano scale.

In 2002, the U.S. Army established the ISN through a 5 year, \$50

million contract with MIT devoted to research in nanomaterials and nanotechnology. Located in MIT's Technology Square, the ISN is working with faculty and students transcending many departments to revolutionize and advance soldier protection and survivability — producing success stories along the way.

"When you get into the nano regime, that's when properties become size dependent, and new properties begin to express themselves," said Edwin L. Thomas, director of the ISN and professor of materials science and engineering, in a speech delivered last week at the 2005 John Wulff Memorial Lecture. During the lecture, intended to engage undergraduates, especially freshmen, Thomas stressed the importance of nanotechnology in relation to soldier capabilities. According to Thomas, "Nanotechnology provides the ultimate in miniaturization."

Miniaturization is a key issue for soldiers in the field, who carry as much as 120 pounds of provisions and gear. While the ultimate goal of the ISN is the creation of a 21st century battlesuit, "a bullet-proof jumpsuit, no thicker than ordinary spandex, that monitors health, eases injuries, communicates automatically, and may even lend superhuman abilities," researchers are now working on smaller scale projects in nanocomposites and nanocoatings, or what Thomas refers to as "low-hanging nano fruit" that can be implemented in the near future.

Professor of Chemical Engineer-

Nanotech, Page 13



SCOT FRANK—THE TECH

David D. Lin '06 (left) and Tony L. Eng '92 answer questions about their research with the Institute for Soldier Nanotechnology and future business plans involving their company, RallyPoint. Their work involves wearable computer devices for soldiers.



RICKY RAMIREZ—THE TECH

Luke H. Harris '09 is one of the students that MIT accepted from Tulane University after Hurricane Katrina devastated the New Orleans campus in late August. MIT is currently debating whether to host Luke and some of his fellow Tulane students through the end of the spring term.

# RIAA Suits Continue; i2hub Server Shuts Down

By Kelley Rivoire  
EDITOR IN CHIEF

In a round of lawsuits filed on October 26, three MIT dormitory residents were sued by the record industry for copyright infringement.

The latest suits were filed against a total of 745 Internet2 network users of the i2hub application at 17 universities, including Harvard and Boston University.

As a result of legal pressure from the lawsuits, i2hub shut down yesterday. The Web site for i2hub now displays only the words "Remember i2hub" and "R.I.P. 03.14.2004–11.14.2005."

The record industry has been granted permission to subpoena MIT for the names of the three students, who live in East Campus, Next House, and Burton Conner. Each is accused of illegally sharing five copyrighted songs in late September or early October. The songs include music by Foreigner, Michael Jackson, and O-Town.

The October lawsuit brings the total number of MIT students sued by the record industry since last March to 32, including three this September. Of this total, 22 students were sued last April; all 22 cases have now been dismissed, indicating that the cases were settled outside of court. Settlements are typically for several thousand dollars.

"Students have a responsibility to do the right thing and turn to legal sources of online music," said Cary Sherman, president of the Recording Industry Association of American, which filed the lawsuits on behalf of the record industry, in a press release.

The lawsuit has been consolidated with previous suits, under case No. 04-12434 in federal district court in Massachusetts.

## News

City Council Election Results . . . . . 16

UMOK Final Totals . . . . . 10

Boston officials propose new restrictions for biolabs . . . . . 14

Survey finds one percent decrease in U.S. graduate student enrollment . . . 15

Switching colleges can be harmful to students, study says . . . . . 17

World & Nation . . . . . 2

Opinion . . . . . 4

Campus Life . . . . . 7

Comics . . . . . 8

Sports . . . . . 20



# WORLD & NATION

## Name-Calling Erodes Ties Between Fox and Chavez

By James C. McKinley Jr.  
*THE NEW YORK TIMES*

MEXICO CITY

Diplomatic relations between Mexico and Venezuela fell apart Monday after President Hugo Chavez of Venezuela refused to apologize for remarks about President Vicente Fox of Mexico.

The two heads of state have been at loggerheads since this month's Summit of the Americas in Argentina, where Fox defended an American-backed proposal for a free-trade zone throughout the Americas as Chavez declared it dead. Violent protests against the idea raged in the streets of Mar del Plata, Argentina, during the talks.

The rift between Mexico and Venezuela reflects a wider gap between Canada, the United States and Mexico on one side and Latin American left-wing leaders, who have rejected President Bush's call for more free trade, preferring to strengthen their trade ties with China and the European Union. The presidents of Brazil, Argentina, Paraguay and Uruguay have taken a stand similar to that of Chavez.

Fox, a conservative, has been Bush's most outspoken ally in the effort to revive the Free Trade Agreement of the Americas, standing up to the other large countries during the summit meeting. He has accused Argentina's left-leaning president, Nestor Kirchner, of pandering to opinion polls and suggested that Chavez was divorced from reality.

## U.S. Urges China to Open Markets Further

By Keith Bradsher  
*THE NEW YORK TIMES*

BEIJING

Senior U.S. officials exhorted China on Monday to open its markets further, but also asked for its help in breaking an impasse in global trade talks, displaying a combination of demands and pleas that increasingly characterizes the relationship between the two countries.

In speeches and interviews here just six days before President Bush arrives in Beijing, both Rob Portman, the U.S. trade representative, and David A. Sampson, the deputy secretary of commerce, repeated previous demands for China to protect American copyrights, trademarks and patents, and that more American companies be allowed to compete in China's domestic market.

But Portman said he had also urged senior Chinese officials to become more active in World Trade Organization negotiations to produce a new global trade pact.

The demands for changes to Chinese domestic policies coupled with a request for Chinese help in WTO negotiations shows how the Chinese-American economic relationship is becoming as complex as the two countries' security relationship.

## Chirac to Ask for Extension Of Crisis Rules to Combat Riots

By Craig S. Smith  
*THE NEW YORK TIMES*

PARIS

President Jacques Chirac, addressing his country for the first time since unrest broke out, said that he had asked Parliament to extend a national state of emergency to February and that he would set up a program that would provide jobs and training for 50,000 youths by 2007.

The president, stressing respect for the law and the need to recognize the diversity of French society, acknowledged that the past two weeks had been proof of a "profound malaise" in the country, calling it a "crisis of identity."

"We'll respond by being firm, by being just and by being faithful to the values of France," he said.

# Senate Republicans Pushing For Plan to End War in Iraq

By Carl Hulse  
*THE NEW YORK TIMES*

WASHINGTON

In a sign of increasing unease among congressional Republicans over the war in Iraq, the Senate is to consider on Tuesday a Republican proposal that calls for Iraqi forces to take the lead next year in securing the nation and for the Bush administration to lay out its strategy for ending the war.

The proposal from Sen. Bill Frist, the majority leader, and Sen. John W. Warner, R-Va., and chairman of the Armed Services Committee, also requires the Bush administration to provide extensive new quarterly reports to Congress on subjects like progress in bringing in other countries to help stabilize Iraq.

The plan, which will be debated as part of a Pentagon policy measure that also contains new limits on the legal rights of terror detainees, stops short of a competing Democratic proposal that moves toward establishing dates for a phased withdrawal of troops from Iraq. But it is built upon the Democratic approach and makes it clear that senators of both parties are increasingly eager for Iraqis to take

control of their own country in coming months and open the door to removing American troops.

Warner said the underlying message was, "we really mean business, Iraqis, get on with it." The senator, an influential party voice on military issues, said he did not interpret the wording of his plan as critical of the administration, describing it as a "forward-looking" proposal.

"It is not a question of satisfaction or dissatisfaction," he said. "This reflects what has to be done."

Democrats said the proposal represented a shift in Republican sentiment on Iraq and was an acknowledgment of growing public unrest with the course of the war and the administration's frequent call for patience.

"I think it signals the fact that the American people are demanding change, and the Republicans see that that's something that they have to follow," said Sen. Harry Reid of Nevada, the Democratic leader.

Frist said an important reason for the Republican proposal was to offer an alternative to the Democratic call for a withdrawal timetable. "The real objective was to get out of this timeline of cutting and running that the

Democrats have in their amendment," he said.

Warner said he decided to take the Democratic proposal and edit it to his satisfaction in an effort to find common ground between the parties on the issue.

Sen. Joseph I. Lieberman, D-Conn., said he saw the proposal as a potential "turning point" in congressional deliberation over Iraq and related issues.

The competing amendments include some of the most specific and expansive congressional statements on the war in months and are being proposed for inclusion in a measure that also wrestles with the issues of treatment of terror detainees and their rights in American courts.

On that issue, a group of senators said Monday night that they had reached a compromise on the contentious issue of allowing detainees access to federal courts. The Senate voted last week to prohibit those being held to challenge conditions surrounding their detention in federal court despite a Supreme Court ruling to the contrary. The Senate is scheduled to vote Tuesday on an effort to reverse that decision.

# Court Rules Parents of Disabled Children Have Burden of Proof

By Linda Greenhouse  
*THE NEW YORK TIMES*

WASHINGTON

The Supreme Court ruled in a closely watched education case on Monday that parents who disagree with a school system's special-education plan for their child have the legal burden of proving that the plan will not provide the "appropriate" education to which federal law entitles all children with disabilities.

The 6-2 decision, in a case from the Washington suburb of Montgomery County, Md., affirmed a ruling last year by the 4th U.S. Circuit Court of Appeals in Richmond, Va. Chief Justice John G. Roberts Jr. did not take part in the case, which was argued on Oct. 5, because his former law firm represented the school district.

The decision, which will likely affect hundreds of cases each year, was a disappointment for parents and

disability rights groups that argued that making them prove that special-education programs were inadequate gave school districts little incentive to address their complaints.

"It's a setback," said Michael Eig, the Maryland lawyer who represented the family in the case before the Supreme Court. "We're disappointed. The problem here is that, unfortunately, it unbalances an already unbalanced playing field against the parents."

The National School Boards Association praised the decision, saying it would allow school districts to "spend the money and resources on educating children, not legal proceedings."

The Bush administration had originally entered the case on behalf of the parents, arguing that under the Individuals with Disabilities Education Act, a school district had the

burden of proving the adequacy of a student's "individualized education program" rather than the other way around.

But when the case reached the Supreme Court, the administration switched sides, arguing that the court should apply the "traditional rule" in civil cases that "the party initiating and seeking relief" bears the burden of proof. This was the argument that Justice Sandra Day O'Connor accepted in her majority opinion.

There are nearly 7 million students in the country who receive special education services under the Individuals with Disabilities Education Act, which in several earlier forms dates from 1970. To fulfill the law's requirement to provide a "free appropriate public education," school districts work with parents to develop an individual program for each student with a disability.

# WEATHER

## Beast of the East

By Michael J. Ring  
*STAFF METEOROLOGIST*

A rapidly intensifying cyclone will bring miserable weather to the eastern half of the country over the next few days.

As we move through air masses in different regions of the storm, our temperatures will vary between now and Thursday. Today, we are on the far northeastern edge of the cyclone. As the cyclone center moves closer to us, however, a warm front will pass over Boston. A warm front features warmer air rising and overtaking colder air, so after its passage temperatures will increase. Hence Wednesday's high temperatures will be much warmer than those of today.

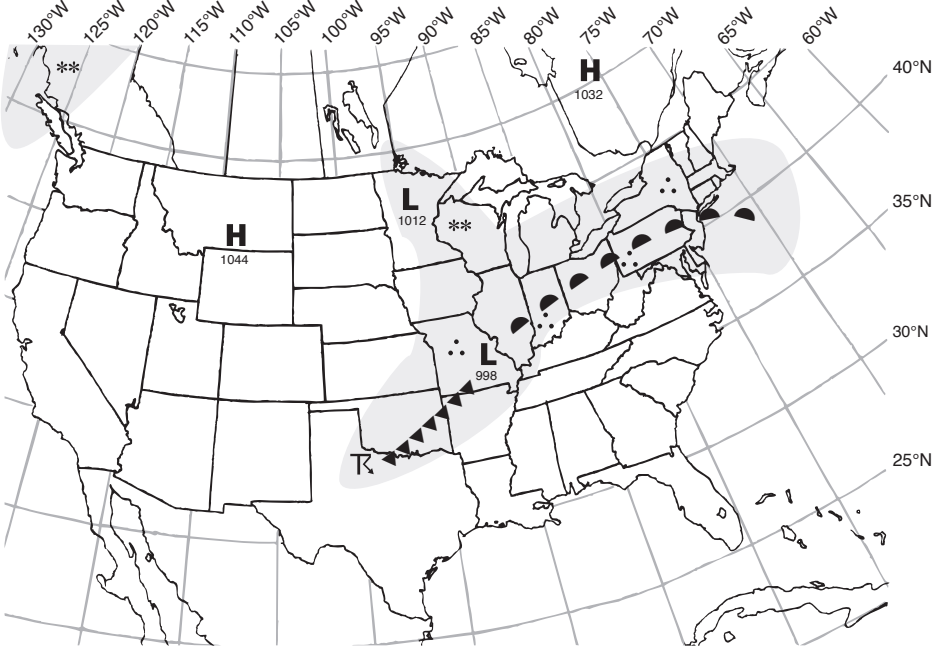
Trailing behind the storm center is a cold front. The cold front is identified by cold air sinking and replacing warmer air, which is forced upward. After the cold front's passage on Wednesday night, temperatures will return to cooler values.

While temperatures will vary greatly over the next several days, the clouds and rain will be constants. Rainy weather will dominate the next few days from Maine to Missouri, while in the upper Midwest several inches of snow are expected.

### Extended Forecast

Today: Rain; may be heavy at times during the afternoon. High near 50°F (10°C).  
Tonight: Rain continues; temperatures holding steady near 50°F (10°C).  
Wednesday: Rainy but warmer. High near 65°F (18°C).  
Wednesday night: Yet more rain; low near 47°F (8°C).  
Thursday: Rain finally ends; temperatures colder with a high near 48°F (9°C) and a low near 35°F (2°C).  
Friday: Sunny but cool; high near 43°F (6°C).

Situation for Noon Eastern Standard Time, Tuesday, November 15, 2005



Weather Systems		Weather Fronts		Precipitation Symbols		Other Symbols	
<b>H</b>	High Pressure	- - -	Trough		Snow		Fog
<b>L</b>	Low Pressure		Warm Front		Rain		Thunderstorm
	Hurricane		Cold Front		Light		Haze
			Stationary Front		Moderate		
					Heavy		

Compiled by MIT Meteorology Staff and The Tech

# 20-Year-Old Document Provides New Hints About Alito's Beliefs

By Michael Kranish  
THE BOSTON GLOBE

Samuel A. Alito Jr., the nominee for the Supreme Court, wrote in a 1985 application for a senior position in the Reagan administration that “the Constitution does not protect a right to an abortion.”

Calling himself a lifelong conservative Republican, Alito also said that he was proud of fighting what he described as “racial and ethnic quotas.”

The release of the document, from the Ronald Reagan Presidential Library Monday, provided the clearest glimpse yet into Alito’s views on major social issues. Leading Democrats and some Republicans immediately said they would question Alito closely about the statements at his Supreme Court confirmation hearings in January.

“I am and always have been a conservative,” Alito wrote in a 1985 application.

Alito was seeking a political appointment to a higher job in the Reagan Justice Department.

“The greatest influences on my views were the writings of William

F. Buckley Jr., the National Review, and Barry Goldwater’s 1964 campaign,” he wrote.

Describing his role as assistant to the solicitor general in the Reagan Justice Department, Alito made clear that he was doing more than arguing the case of his employer, the US government, and that he personally agreed with Reagan’s positions.

Alito wrote that he was honored to “advance legal positions in which I personally believe very strongly. I am particularly proud of my contributions in recent cases in which the government has argued in the Supreme Court that racial and ethnic quotas should not be allowed and that the Constitution does not protect a right to an abortion.”

While Alito has told some senators that he has respect for the precedent set by Roe v. Wade, which legalized abortion, he has also left unclear his potential rulings on abortion cases.

The document provided an unusually detailed insight into the development of Alito’s political thinking, especially how he came to

view himself as a “conservative ... lifelong registered Republican,” as he wrote.

He said he had given money to Republican candidates, had regularly attended lunches of the Federalist Society for Law and Public Policy, a conservative organization, and had submitted articles for publication in two conservative magazines, National Review and The American Spectator.

Alito said he had developed an interest in constitutional law “motivated in large part by disagreement with Warren Court decisions, particularly in the areas of criminal procedure, the Establishment Clause, and reapportionment.” Alito did not spell out specific objections.

The Warren court, which Earl Warren led as chief justice from 1953 to 1969, made several historic decisions, including Brown v. Board of Education and Miranda.

The Brown case banned school segregation, and the Miranda case, which required that a person who is arrested be advised of a right to a lawyer.

# Investigation Finds FDA Rejected Plan B Before Study's Completion

By Gardiner Harris  
THE NEW YORK TIMES

WASHINGTON

Top federal drug officials decided to reject an application to allow over-the-counter sales of the morning-after pill months before a government scientific review of the application was even completed, according to accounts given to congressional investigators.

The Government Accountability Office, a nonpartisan investigative arm of Congress, concluded in a report released Monday that the Food and Drug Administration’s May 2004 rejection of the morning-after pill, or emergency contraceptive, application was unusual in several respects.

Top agency officials were deeply involved in the decision, which was “very, very rare,” a top FDA review official told investigators. Top officials’ decision to ignore the recommendation of an independent advisory committee as well as the agency’s own scientific review staff was unprecedented, the GAO found. And a top official’s “novel” rationale for rejecting the application contradicted past FDA practices, the report

concluded.

“For example, FDA review staff told us that they were told early in the review process that the decision would be made by high-level management,” the report said.

Top agency officials denied many of the GAO’s allegations, including its conclusion that top officials’ involvement was unusual and that top officials had decided to reject the application even before the agency’s own scientific review was concluded. The investigation was requested by 30 House members and 17 senators.

Julie Zawisza, an FDA spokeswoman, said that the agency stood by its rejection of the morning-after pill application. “We question the integrity of the investigative process that results in such partial conclusions by the GAO,” she said.

After Sen. Patty Murray, D-Wash., denounced the FDA’s Plan B decisions during a Nov. 2 hearing on pandemic flu, Health and Human Services Secretary Michael O. Leavitt said that the agency had acted appropriately.

Dr. Susan F. Wood, former director of the FDA’s office of women’s

health, said that what she described as the FDA’s willingness to ignore science in the service of abortion politics has “only gotten worse” since the events that were the focus of the GAO investigation. Wood resigned in August after the agency decided to delay once again its decision regarding the morning-after pill known as Plan B.

Murray and Sen. Hillary Rodham Clinton, a Democrat from New York, issued a statement on Monday saying that the auditors’ report “has confirmed what we have always suspected, that this was a politically motivated decision that came down from the highest levels at the FDA.”

Eighteen Democratic House members signed a letter of protest to Leavitt on Monday. The letter noted that congressional investigators had been unable to uncover the role played by former FDA Commissioner Mark McClellan in the Plan B decision because agency officials told investigators that all of McClellan’s e-mails and written correspondence regarding Plan B had been deleted or thrown out.

# Rice Makes Push to End Two-Month Middle East Stalemate About Gaza

By Steven R. Weisman  
THE NEW YORK TIMES

JERUSALEM

Secretary of State Condoleezza Rice struggled into the early morning hours Tuesday to conclude what the administration hoped would be a broad agreement between Israel and the Palestinians to move people and goods in and out of Gaza and to take other steps to enhance Gaza’s viability.

Efforts to reach the agreement were aimed at opening several crossings from Gaza to Israel and Egypt while giving Israel a role in checking trucks, buses and individuals to guard against terrorist attacks. Negotiations had been tied up in a bitter impasse for more than two months on several technical issues related to access to Gaza.

The discussions represented an extraordinary personal effort in the Middle East that the Bush administration has not attempted in the last five years. Rice and her aides were closeted at 2 a.m. in her ninth-floor suite in the David Citadel Hotel here with two top aides to Prime Minister Ariel Sharon. Then, her aides took

the elevator to the first floor to negotiate with two top aides to President Mahmoud Abbas of the Palestinian Authority.

Earlier, Rice decided abruptly after a full day of talks to cancel her plans to travel to South Korea on Monday night, though she made a quick trip to Jordan to pay respects to those killed in hotel bombings in Amman last week.

Since President Bush took office, those advocating a more active role in the details of negotiating a Middle East peace agreement have been rebuffed repeatedly, in part because Bush and his aides had been disdainful of the highly visible but ultimately unsuccessful efforts by President Bill Clinton in the last weeks of his administration.

But now that Rice was thrust into the middle of negotiations herself, it appeared likely that she would stay in Jerusalem until there was at least a broad agreement, even if many details would have to be worked out later.

She and her aides were understood to be working with all sides on a lengthy document to be released

later on Tuesday.

Throughout most of the day and night, James D. Wolfensohn, the former World Bank president and current Middle East envoy, accompanied U.S. officials in the negotiations. He has been working on details related to the crossings since earlier in the year, when withdrawal from Gaza was announced by Sharon. The withdrawal was completed in late summer.

But Wolfensohn more recently has been openly critical of the refusal of both sides to make concessions and to ensure Gaza area’s economic future by allowing it to export produce and other goods and send some of its people to jobs in Israel and the West Bank.

On Monday, Wolfensohn’s frustrations burst forth in a talk at a conference in Jerusalem, when he said he would leave his post if the two sides “want to blow each other up.”

People close to the talks, who declining to be identified because they were not authorized to discuss the negotiations publicly said that Rice had in effect replaced Wolfensohn as the negotiator and had drafted her own compromise document.

## Mass. House Legalizes Sale Of Hypodermics

By Scott Helman  
THE BOSTON GLOBE

The Massachusetts House voted Monday to legalize over-the-counter sales of hypodermic needles to curb the spread of HIV and other blood-borne infections, potentially setting up a political showdown with Governor Mitt Romney over whether the bill will save lives or promote drug use.

The controversial measure, which would bring Massachusetts in line with 47 other states that allow syringes to be sold without a prescription, has long been championed by public health advocates, infectious disease doctors, and substance abuse specialists, who argue it would vastly reduce instances of AIDS, hepatitis C, and other diseases spread through shared needles.

“This legislation is long overdue in this Commonwealth,” state Representative Peter J. Koutoujian, a Waltham Democrat and lead sponsor of the bill, said on the House floor. “As soon as this legislation passes, it will save lives.”

But it drew opposition from several dozen other lawmakers, who said the change in state law would essentially encourage people to use drugs by making it easy for them to purchase needles at drugstores across the state.

The House passed the measure 115-37 after almost three hours of passionate debate. It now goes to the Senate.

Representatives of Senate President Robert E. Travaglini’s office could not be reached for comment.

But Senator Susan C. Fargo, a Lincoln Democrat and cochairwoman of the Joint Committee on Public Health, said she’s optimistic her colleagues in the Senate will approve the bill. “I don’t think people should be afraid of it,” she said. “I am delighted it’s moving forward.”

The state Department of Public Health backs the bill, but Romney does not, saying he believes allowing access to needles will facilitate drug use for addicts.

## Medicare Says Bonuses Can Improve Hospital Care

By Reed Abelson  
THE NEW YORK TIMES

Linking hospital payments to the quality of patient care can significantly improve the level of care, Medicare officials said Monday in announcing the first results of the government’s experimental performance-based bonus system for hospitals.

“Quality did increase across the board,” said Dr. Mark B. McClellan, Medicare’s top administrator and a proponent for rewarding hospitals and doctors for providing better care. “Both the top and bottom hospitals showed very impressive gains.”

Medicare has typically paid more to doctors and hospitals only when they provided a greater quantity of care — treating more patients or performing more tests and procedures. But under the three-year test program, involving about 270 hospitals, Medicare is paying the 123 that were the top performers an additional \$8.85 million, the first time it has paid performance bonuses.

Medicare’s results suggest that paying hospitals more for quality and having them focus on how they treat patients can improve care, said Carmela Coyle, an executive with the American Hospital Association in Washington. “I think it shows rewarding excellence works,” she said.

## Bush Begins Asia Tour

By Farah Stockman  
THE BOSTON GLOBE

WASHINGTON

President Bush left Monday for a weeklong Asia tour that will feature a warm, personal visit to Japan and a chance to showcase U.S. leadership on free trade at the Asia-Pacific Economic Cooperation summit.

But behind the scenes, the trip will also be a chance to smooth over differences between the United States and South Korea, strategic allies who fought side by side against communism a half-century ago but now find themselves at odds, particularly on how to handle North Korea. Bush will arrive in South Korea Wednesday for bilateral meetings.

South Korea’s liberal government has begun to view North Korea as a poor relative — no longer an enemy — that can be coaxed into giving up its nuclear program with trade, energy assistance, and a chance to normalize relations with the United States.

But hard-liners in the Bush administration still deeply distrust North Korea and demand that Pyongyang dismantle its nuclear program before receiving any US concessions.

“There are a number of people who feel that the South Korea they knew is not the South Korea of today,” said Don Oberdorfer of Johns Hopkins School of Advanced International Studies. “The two countries, or two governments and their populations as well, have been drifting apart for some time.”

## NBC Cancels Martha Stewart

By Suzanne C. Ryan  
THE BOSTON GLOBE

Martha Stewart, you just don’t fit in — on the NBC schedule that is. The network confirmed Monday that “The Apprentice: Martha Stewart” will end its run Dec. 21, just months after its heavily publicized September launch.

Although an NBC spokeswoman insisted that the reality show was always scheduled to air for just one cycle, clearly ratings were a factor in the decision. The show has averaged just 6.7 million viewers this season.

Stewart’s company, Martha Stewart Living Omnimedia, said in a statement that a second season would have interfered with production of her syndicated daytime show, “Martha.”

“From the time we knew we would be producing a live daily TV show with Martha as the star, it was clear that we could only do one round of “The Apprentice,” her company said.

Observers were quick Monday to point out the faults of the show, which is a spinoff of Donald Trump’s “Apprentice.” The tasks were lame, the format was too similar to the original series, and Stewart was too mild-mannered, critics said.



# OPINION



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## Editor's Note

A back-page sports article on Nov. 1 ["As the NBA Season Begins, Spurs, Heat Seem Likely to Lead the East, West"] gave a preview of the NBA season. The column should have attributed the prediction that the Spurs Antonio Spurs would not win 70 games because Coach Gregg Popovich would not let them waste their energy to ESPN.com analyst Marc Stein.

The writer read Stein's column in the course of his research and failed to properly attribute the statement. The section editor was aware that Stein's predictions had been used as background, but did not realize the extent of the similarity. In this case, the missing attribution should have been corrected during the editing process.

## Letters To The Editor

### Apple Always Tasty

[Re "Rotten Apples," Nov. 8] Ms. Miller has called Apple on this low life battery, yes? There are better life batteries to be had at OtherWorld Computing. I have never heard of such low life on an iPod.

Apple users retain critical judgment and independence of thought, if one visits Mac Web sites where people talk, this can clearly be seen, so may she please refrain from talking about thick-minded Apple groupies who like every product that comes along.

But it is true that there is still a strong sense of Apple community. Hopefully, she will derive more satisfaction from her experience with Apple. They have responded to me when I called on them for help or service.

Leonard Isaksson

### United We Stand

As a Jordanian student studying abroad, it pains me not to be able to march the streets of Amman with my fellow citizens and show my patriotism and love for our country. Although I am halfway across the world, I cannot be any prouder of calling myself a Jordanian after seeing the unity of our people in this continuous fight against terrorism. These barbaric and cowardly acts were committed by the devil's agents — not by rational individuals fighting in the name of Islam.

I hope these unfortunate events will bring the Jordanian and American people closer together in the fight against terrorism. These cowards will only bring the Jordanian people closer to each other in the face of adversity and foreign attacks. To all those families who have lost loved ones, I send my deepest condo-

lences. Our hearts and minds are with you and I assure you that the terrorists will not prevail in these trying times. The martyrs we lost in "Jordan's 9/11" will not be forgotten and will only strengthen our drive to ensure a safe and prosperous Jordan for generations to come.

Hashem H. Dabbas '07

### Praise for '07 Writers

I have to say I really appreciated the opinion/campus life articles in Tuesday's paper, especially those of my fellow '07ers: Messrs. Cabral and Ozer and Ms. Miller. Good stuff; keep 'em coming.

Also, why's every letter to the editor have to be some complaint (this one included)? Celebrate the good in life. Yeah.

Aston R. Motes '07



## Opinion Policy

**Editorials** are the official opinion of *The Tech*. They are written by the editorial board, which consists of the chairman, editor in chief, managing editor, opinion editors, a senior editor, and an opinion staffer.

**Dissents** are the opinions of signed members of the editorial board choosing to publish their disagreement with the editorial.

**Letters to the editor, columns, and editorial cartoons** are written by individuals and represent the opinion of the author, not necessarily that of the newspaper. Electronic submissions are encouraged and should be sent to [letters@the-tech.mit.edu](mailto:letters@the-tech.mit.edu). Hard copy submissions should be addressed to *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m. two days before the date of publication.

Letters, columns, and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted.

*The Tech* reserves the right to edit or condense letters; shorter letters will be given higher priority. Once submitted, all letters become property of *The Tech*, and will not be returned. *The Tech* makes no commitment to publish all the letters received.

**Guest columns** are opinion articles submitted by members of the MIT or local community and have the author's name in italics. Columns without italics are written by *Tech* staff.

## To Reach Us

*The Tech's* telephone number is (617) 253-1541. E-mail is the easiest way to reach any member of our staff. If you are unsure whom to contact, send mail to [general@the-tech.mit.edu](mailto:general@the-tech.mit.edu), and it will be directed to the appropriate person. Please send press releases, requests for coverage, and information about errors that call for correction to [news@the-tech.mit.edu](mailto:news@the-tech.mit.edu). Letters to the editor should be sent to [letters@the-tech.mit.edu](mailto:letters@the-tech.mit.edu). *The Tech* can be found on the World Wide Web at <http://the-tech.mit.edu>.

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You're already hard-wired with a passion to succeed. Here, we will call on that quality every day—then challenge you even more. Are you willing to redefine your personal limits? Good.

**Quantitative Opportunities Presentation**

Thursday, November 17, 2005  
5:30 pm – 6:30 pm  
Hotel at MIT

**Firmwide Information Session**

Thursday, November 17, 2005  
6:30 pm – 8:30 pm  
Hotel at MIT

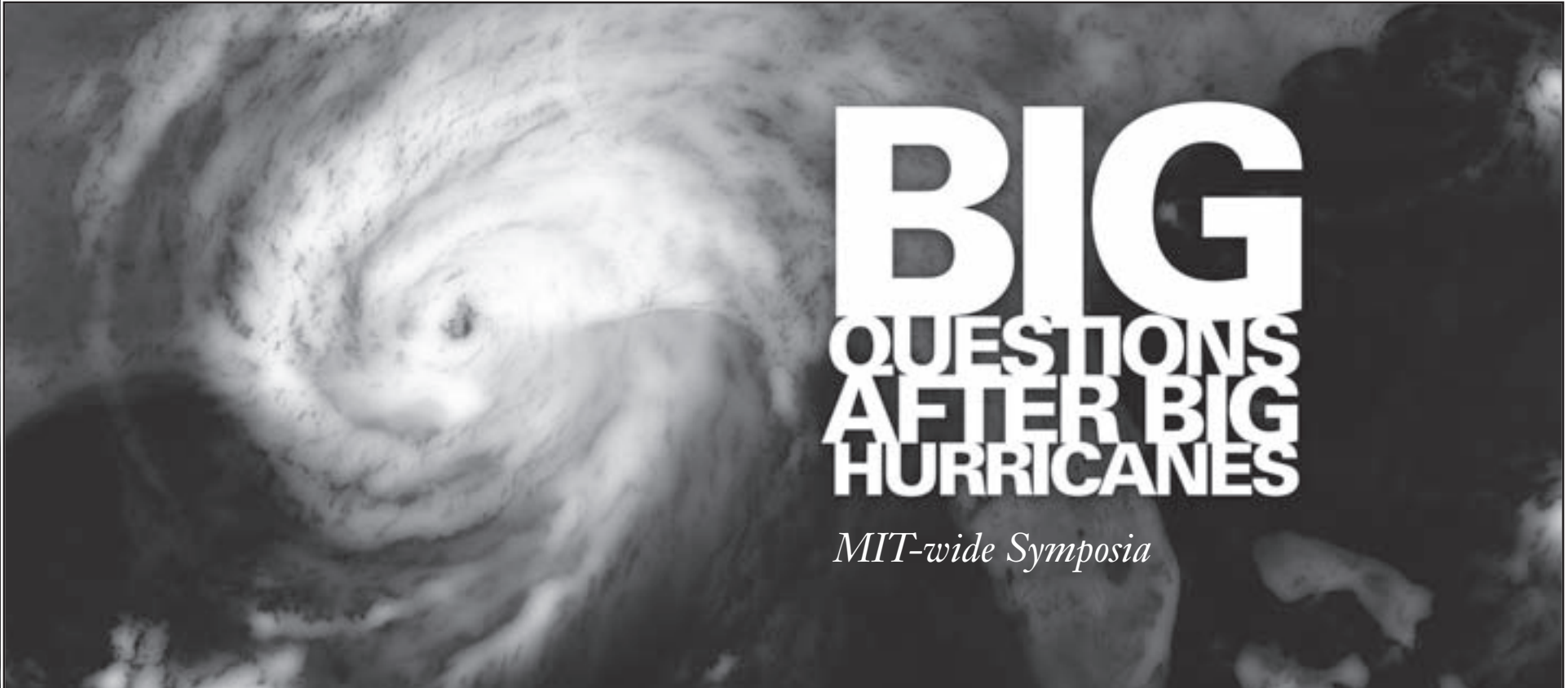
**Application deadline for summer opportunities:** Monday, January 30, 2006

**Summer Analyst Interviews**

Monday, February 13, 2006  
8:00 am  
Building 12-170

**Goldman  
Sachs**





# BIG

## QUESTIONS AFTER BIG HURRICANES

*MIT-wide Symposia*

### What’s So Natural About Natural Disasters?

***Unnatural Mortality: Poverty and Risk in Epidemics and Natural Disasters***  
Professor David S. Jones, Program in Science, Technology, and Society

***Technological Systems in Disaster***  
Professor David A. Mindell, Science, Technology and Society, and Engineering Systems Division

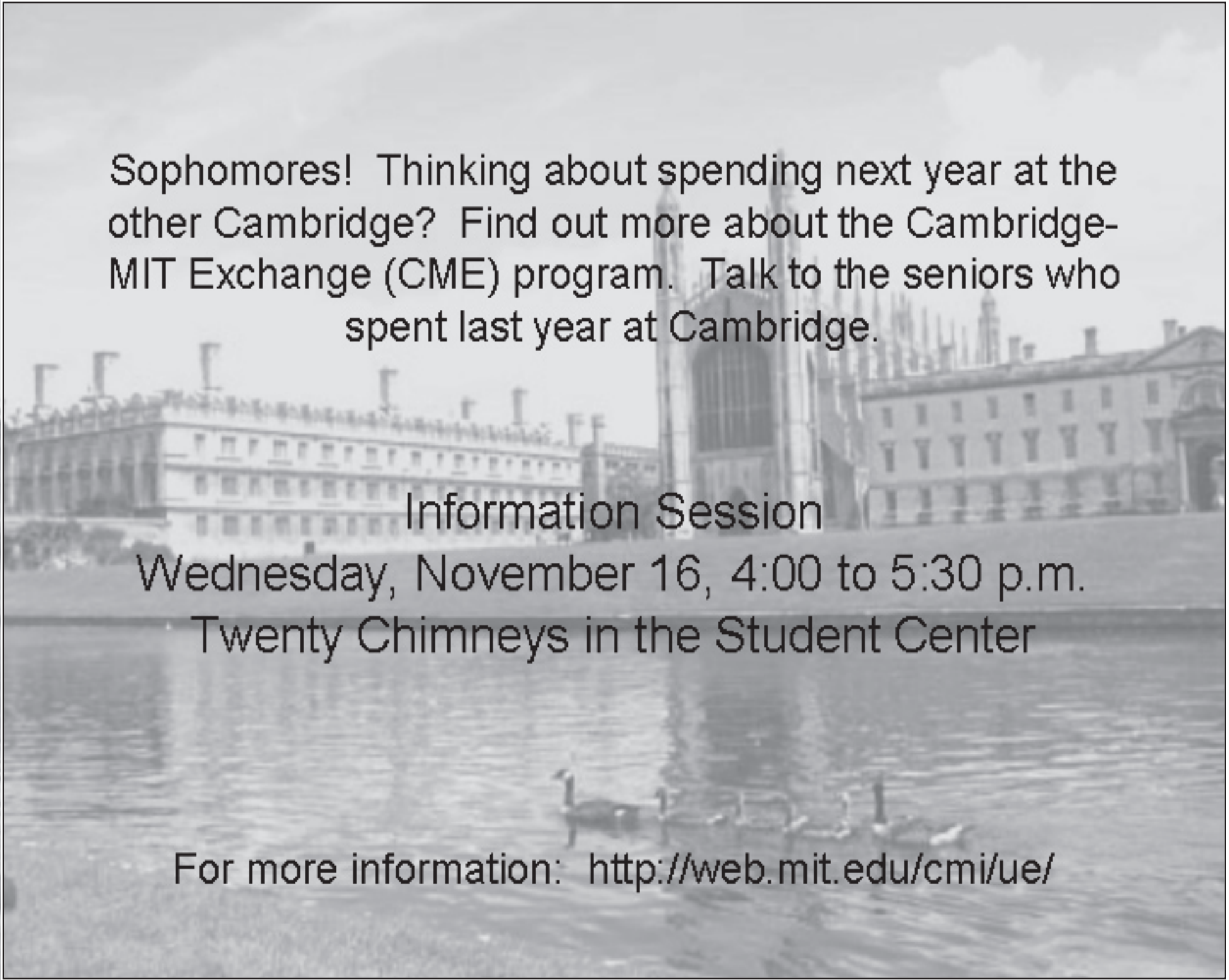
***Natural Disaster and the Unnatural Bush Response***  
Professor Meg Jacobs, History

Moderated by Professor Rosalind H. Williams, Director of the Program in Science, Technology, and Society

**Tuesday,  
November 15, 2005**  
5:00pm - 7:00pm

**Kirsch Auditorium**  
Ray and Maria Stata Center

For information on the symposia series:  
<http://web.mit.edu/katrina/symposia/>



Sophomores! Thinking about spending next year at the other Cambridge? Find out more about the Cambridge-MIT Exchange (CME) program. Talk to the seniors who spent last year at Cambridge.

Information Session  
Wednesday, November 16, 4:00 to 5:30 p.m.  
Twenty Chimneys in the Student Center

For more information: <http://web.mit.edu/cmi/ue/>



# CAMPUS LIFE

## Gadget Review

### Tao xm2go Receiver and XM Satellite Radio

By Kailas Narendran  
STAFF WRITER

Pros

- Music, everywhere, whenever
- First ever portable XM antenna & tuner
- Auto song/artist search and recording for later
- Large display makes use easy

Cons

- Non-intuitive interface

The Lowdown

Satellite radio is the future of musical airwaves, and the Tao receiver is the messenger. Although a bit bulky in size, it packs a punch, delivering a bajillion (around 150) channels of digital audio, streaming music, talk and inane drivel (Fox News Channel), to you, wherever you are. The receiver is packaged with a home and car kit, giving you ultimate flexibility in listening environment. The receiver itself, although a little challenging to figure out at first, has quite a few innovative features, including saving song names on the fly; scheduling recording of radio shows, on-screen sports and stock ticker; automatically finding a selected artist/song; and recording up to five hours of music for listening. Most exciting, it's the first XM receiver with a built-in antenna, letting you take the service wherever you go.

Features, features

Like most consumer electronics, this device is packed with features. In addition to the ones listed before, it has a built-in FM transmitter, scanning mode, and many more that allow you to do more than necessary while listening to music. On the downside is its limited user interface. It's uncommon for a feature-rich piece of equipment to give you an elegant solution to access all of them (a la iPod), and this player is no exception. It took me quite a while poking through the manual to find out where features were buried, and how to use them. In the end, it wasn't too much of a hassle, and things actually worked as described (contrary to many previous

experiences with new hardware). While I wouldn't buy this for my parents, I think it's definitely within the capabilities of the Gen-Y and some Xers.

XM Radio

For those who haven't experienced it, satellite radio is pretty damn cool. In the end, whatever tuner you get is only as good as the music that comes through it. Satellite radio makes use of (you guessed it) satellites that broadcast music over various parts of the earth. There are three companies that provide service, XM, Sirius, and WorldSpace, the first two providing exclusively to the US market. Hardware is *not* compatible between service providers. In large cities (like Boston), the satellite signal is repeated through ground stations, so you get a good signal, even without a view of the sky.

The only solid difference among providers is programming. XM has the majority market share in satellite programming because of good business decisions during their growth. I found that their programming lineup was quite varied, perfect if mainstream radio just doesn't float your boat. There are lineups from new radio, to decades, country, urban, Christian, world, electronic, and more; there's also a lot of sports radio (not my type of listening, but it gets some excited). Bottom line is lots of variety, with anywhere from zero to few commercials. Unbeatable.

I found the real value of this system to lie in one's travels around New England, where rural areas become very much so. Spending a lot of time driving around New Hampshire and Vermont, in addition to the greater Boston area, I've found an excellent signal, and only occasional dead zones which only last for a few seconds.

Although the Tao receiver does have an internal antenna, the reception in the car isn't great, and you do need to use the car kit; the Home kit is probably required unless you put it near a window. The recording feature is actually quite useful, if you find yourself making long trips to a basement, you can simply record and playback later.

It does have a built in, rechargeable bat-



TAO MUSIC

tery with decent life, so it's perfect for portable use.

The bottom Line

I really enjoyed playing with the Tao XM receiver, and was quite impressed with XM's radio service. If you spend a significant amount of time in your car, you will be blown away by how much local radio bandwidth is wasted on crappy advertisements. The Tao receiver actually comes with a car and home kit, along with headphones and a random assortment of other stuff to let you do everything you want, right out of the box.

Since the Tao comes with all the accessories it'll set you back by about \$150, give or take. There was a huge range of prices I found, with the cheapest being \$103 after a MIR ([www.abesofmaine.com](http://www.abesofmaine.com)). After you buy a receiver, you will have to pay for service. With XM this starts at \$13/month, down to \$10/month if you sign up for multiple years. Interestingly enough, you can cancel at anytime and get your cash back. Find more about the Tao at <http://www.taolife.com> and XM at <http://www.xm-radio.com>.

## Imminent Collapse

### When the Stage Becomes Your World

By Bill Andrews  
ASSOCIATE CAMPUS LIFE EDITOR

In case you have been too busy to notice (and, gee, what are the odds of that), we are in the midst of MIT's thespian cycle. Shakespeare Ensemble went last week, MTG's going this week, Dramashop's this week, and Gilbert and Sullivan's coming up; and that's just the mainstream groups. So, unless you are a complete shut in (and, hey, what are the odds of that), you probably know someone involved in some way with some show.

And while, statistically speaking, there's a chance you might be part of a show, you probably aren't. Which is fine, of course, except that you have no idea what it's like. So, in the interest of keeping you educated, allow me to tell you: being in a show takes over your life like a hammy director. Which is a lot.

Perhaps you think I am using that old chestnut of the literary trade, hyperbole? No, no, a thousand times no! From the humbling start at auditions to the exhausting finish striking the set, you really put in some serious hours working on something that won't directly benefit you. And, sadly, it is the usually cast who suffers the worst of this. Actually, it's not sad at all, because it is the cast who gets to be in the limelight, so why shouldn't they do a lot of the work? But it's sad for me, because I happen to be in the cast of a certain show that, in order to

prevent any conflict of interest issues, I will refer to as Stellar Conflicts, the Tuneful Version.

Why, just the other day, I was speaking to another cast member who said he'd been skipping every class this last week, just to make sure the show would be ready for opening night. For you non-initiates, this means building the set, painting it, making it safe (or at least safer), setting up lights, sound effects, microphones, etc., etc., etc. It's those etc.'s that kill you, because they keep popping up, and you can't plan for them. Of course, he had it tough because he was a lead. That'll teach you to be talented.

But, lead though I may not be, it's still a lot of work. Learning lines and songs and putting up posters and everything. Oh sure, that may not sound like much, but that's just the stuff you do on your own time, much like the lab class that expects you to do 14 hours' worth of pre-reading. Actual rehearsals take up only a few hours a week at first, but as opening night comes closer and closer they take longer and longer, until finally, the last week, you're rehearsing upwards of six hours a night every day. Consider, if you've never done so, how your life would change if you lost six hours of it each day to a pursuit you might have begun just for the hell of it.

Which, to sound academic, begs the question: why the MIT do we do it? There's no monetary benefit for us, no useful experience

gained (unless you happen to be a drama major, but gosh, what are the odds of that), no real reason to give up control of your life for months at a time. Maybe it's the ham in all of us, willing to do whatever it takes to be in the spotlight, to have crowds staring at and cheering for us? Yeah, that's part of it sure, but what about all the chorus parts out there, people who have to give up all that time for only a few fleeting moments on stage? What about the directors, and producers, and the others who give up their entire lives for a show and never set foot in front of an audience?

Well, at the risk of being poetic, it's because we love it. Which is foolish of course, I know. After all, I love video games but don't give up hours at a time playing them (at least, not during the semester). But being in a show is different (especially a show like SC,TV). I could wax eloquent about the soul crying out for something artistic amid all the science, and the bond of friendship your forge with your castmates, and all that, but really, that's all BS. It's just because you love it.

So, if you happen not to love it, or perhaps not so much you give up your life for it, that's fine. But you should know what's out there, that some folks do love it that much, and what they give up for it. It's not all about equations and numbers. Sometimes, it's about the musical numbers.

## Dare Me?

### Putting the Psycho In Psychology

By Sarah Buckley

Have you ever gotten the feeling that everyone around you is crazy? That's because you go to MIT. Everywhere else, the sun shines a little brighter, people smell a little cleaner, and you just don't see students trying to use echolocation to find their ways around campus (yes, I saw this; no, it wasn't pretty). The point is people at MIT have problems, and, as a philanthropist, I was excited to receive a dare that would allow me to spread sanity to those around me.

"Hey Sarah, do you remember those Peanut's comics where Lucy sets up a psychoanalysis booth? You should do that, preferably in Lobby 7." I got a little makeshift sign (Psychiatric help 5¢. The doctor is IN), I stole a table from a nearby classroom, and set up shop. I lured in my first customer almost immediately, and I soon began to feel as if I were the one receiving therapy. He was in the midst of describing his meditation techniques when a surly gentleman sauntered towards us. I offered to pencil him in for a later appointment and asked him to have a seat in my waiting room (gesturing to all of Lobby 7).

Surly gentleman: The entrance to MIT is no place for this. You're creating a scene!

Me: And how does that make you feel?

He didn't like that at all, and he started to tell me to clear out immediately when my patient piped up. Apparently, my patient was a big-name professor here, and I got to sit back and watch the altercation between these two men over whether I should be allowed to psychologize in a lobby of such renown. Mr. Surly won, however; I moved to Lobby 10.

Most of the people who came through wanted to talk about standard college issues: stress, lack of time or direction in life, lack of social graces, and even bad hair days. My general philosophy for these general sorts of problems is that people are too cooped up in the structures they see in their lives. I instructed most of my patients to break out of their mental prisons by doing something totally off-the-wall. One guy danced the Funky Chicken, several people complimented — or even hugged — strangers, and one girl gave a loud rendition "Under da Sea." But my favorite was the guy who approached a woman he had never met and asked if he could carry her water bottle for her. She admitted that plastic bottles could indeed become awfully heavy, and they proceeded to have a friendly conversation ending in a hug. I got a little bleary-eyed, it was beautiful.

One strategy that I found worked quite well was sock puppet therapy. A troubled gentleman came by complaining that he had a hard time approaching girls. When I asked him to role play with me and show me how he might ask me out, he grew nervous and clammed up, and then stammered, "So, uh, are we gonna do it?" Rather than chastising his poor technique, I immediately put a sock on each hand and used puppets to show him how an appropriate conversation might go. In retrospect, I don't think the socks really added anything insight-wise; they were just really cute, and they made people laugh.

He wasn't nearly as charming as the guy who asked me out for coffee and then snuck up on me just moments later and bear-hugged me from behind. Ha ha! Wasn't expecting that one! To that guy: I am attached, but I'll totally still meet you for coffee.

The biggest blooper of the day is when I accidentally propositioned someone:

Guy in the hall: I want some help, but I don't have any money on me.

Me: It's ok. I'll do you for free.

Guy: Heck yes!

Going into this, I knew to expect the unexpected, and yet I was still convinced that my encounters would be generally light-hearted affairs. Surprisingly, a good 25 percent of my patients came to me with true psychological problems. These are the kinds of issues that I won't reveal here because 1. they're not funny and 2. I'm not a douchebag. I just found it surprising that these people would be willing to open up to a total stranger about very real, very depressing things in such a public place. And not to wax sentimental in a humor article, but it seems to me that most people just want someone to listen to them and care about what they're saying. Even if it means breaking down in the middle of the MIT throngs, people will pour their hearts out if someone's there for them.

And on that hilarious note, I'd like to remind you to send in more dares ([sabuckley@mit.edu](mailto:sabuckley@mit.edu)). This week's was an example of a good dare. You all should try sending in more that fit under that category.

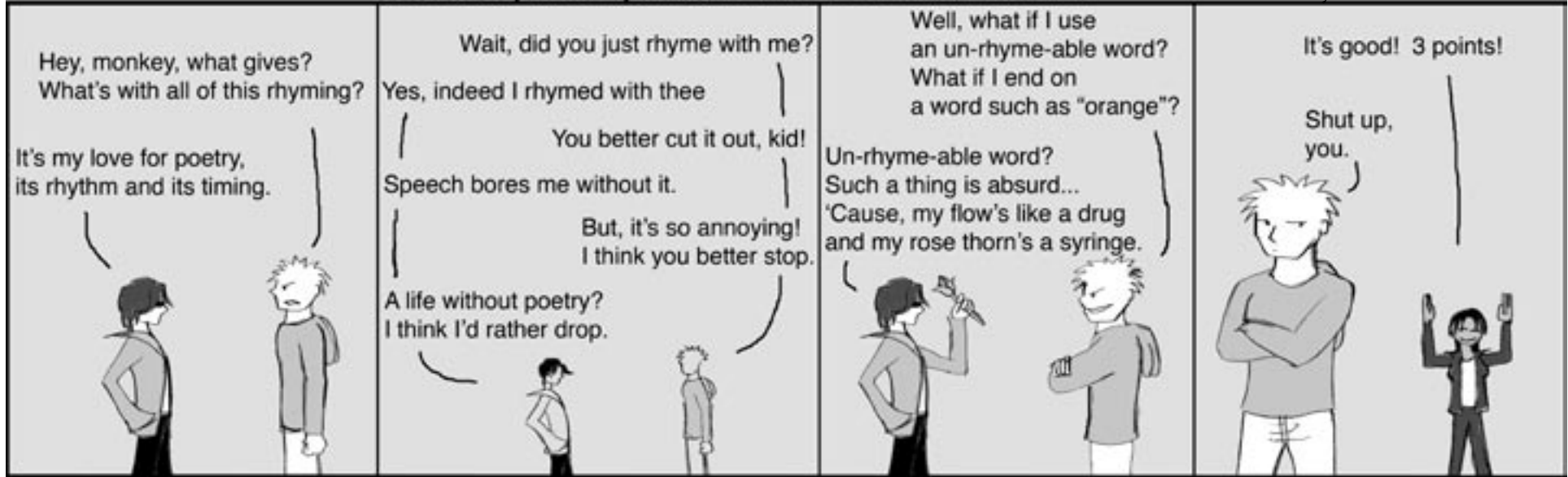
Without us, they're just words.

# Production

## Trio

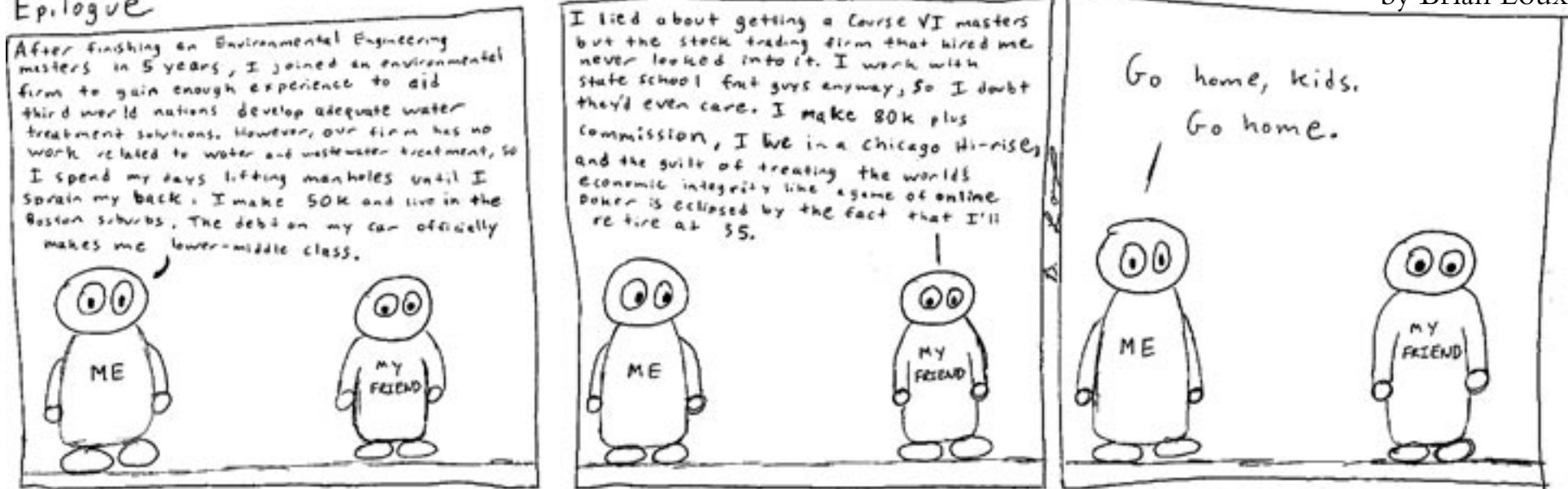
Character profile updates: [ALUM.MIT.EDU/WWW/EMIE](http://ALUM.MIT.EDU/WWW/EMIE)

by Emezie Okorafor



## Epilogue

by Brian Loux



## Moons of Uranus

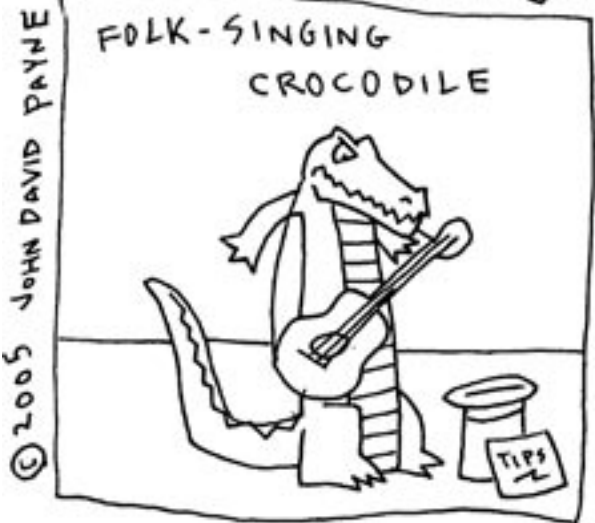
by Juan Pablo Mendieta



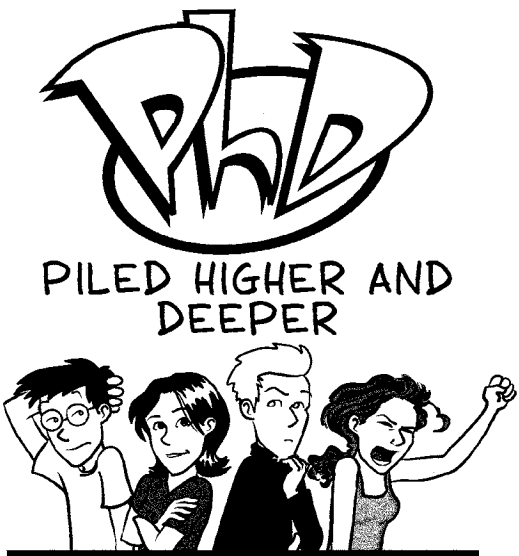
## Crossword Puzzle

Solution, page 15

## schleminkel!







**FoxTrot** by Bill Amend

**su | do | ku**  
© Puzzles by Pappocom

**Dilbert®** by Scott Adams

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APPLICATION DEADLINE  
**WEDNESDAY, DEC. 7, 2005 AT  
5:00PM**

*New Orleans Colleges  
Offer Additional Term*

**Katrina**, from Page 1

been amazing," said Dorothy A. Hernandez '07, who has already registered for classes at Tulane next semester. "As excited as I am to return to Tulane, I will be sad to leave and will miss the friends I have made in the MIT community."

**Universities offer extra term**

Loyola, Xavier, and Tulane will each be offering an extra semester, to help students catch up on their credits, especially for graduation, Norman said.

The University of New Orleans was hit the hardest out of the four schools, and all employees are work-

ing at remote locations as the campus is restored. "Remediation work is in full progress on the campus," Norman said.

Alton A. Torregano '07, from UNO, said he is especially concerned about housing at UNO. "I don't have anywhere to stay," Torregano said. "Almost all the housing immediately surrounding the university is unavailable."

The director of student housing at UNO has indicated that Bienville Hall, UNO's traditional residence hall, should be operational for spring, Norman said. Torregano said he will know officially from MIT in the coming weeks whether he has the option of remaining next term.

**Final Results from UMOK Competition**

Candidate	Total
Hochschild-Serre Spectral Sequence	\$184.00
George M. Eng '06	\$119.21
Orian Z. Welling '08	\$84.29
East Campus Water Slide	\$41.62
Michael Shaw '07	\$32.16
Your Mom	\$26.64
Brandon S. Moore '09	\$18.34
Write-ins	\$17.64
Max Power	\$9.38

SOURCE: ALPHA PHI OMEGA

Winners for Alpha Phi Omega's Ultimate Manifestation of Kore (UMOK) contest were announced last week. The total amount donated, \$533.28, goes to the winner's charity, UNICEF, toward Pakistan earthquake relief.

**n i g h t l i n e**  
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December 12, 2005

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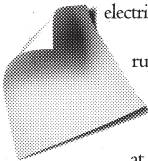
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# BE LESS PRODUCTIVE AT THE OFFICE.

The office has always been a place to get ahead. Unfortunately, it's also a place where a lot of natural resources start to fall behind. Take a look around the next time you're at work. See how many lights are left on when people leave. See how much paper is being wasted. How much



electricity is being used to run computers that are left on. Look at how much water is being wasted in the restrooms. And

how much solid waste is being thrown out in the trash cans. We bet it's a lot.

Now, here are some simple ways you can produce less waste at work.

When you're at the copier, only make the copies you need. Use both sides of the paper when writing a memo. Turn off your light when you leave. Use a lower watt bulb in your lamps. Drink your coffee or tea out of mugs instead of throwaway cups.

**IT'S A CONNECTED WORLD. DO YOUR SHARE.**



Set up a recycling bin for aluminum cans and one for bottles. And when you're in the bathroom brushing

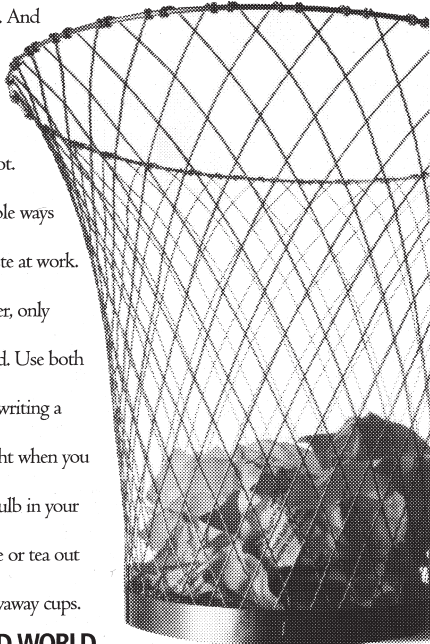


your teeth or washing your face, don't let the faucet run. Remember, if we use fewer resources today, we'll save more for tomorrow.

Which would truly be a job well done.

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Read  
**The Grand Unified Theory of Physics**  
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## Discover how to derive the special relativity observations from Newtonian Mechanics

- All matter particles consist of a small composite particle made of ether gas particles. The composite particle moves at the speed of light and at rest it has a circular orbit. Photon "mass" can be coupled to the composite particle at the speed of light to cause it to accelerate. Part of the "mass" is scattered and part is captured giving the result that the matter particle mass grows as given by  $m_v = m_o / \sqrt{1 - (v/c)^2}$  where "m<sub>v</sub>" is the matter particle mass at velocity "v", "m<sub>o</sub>" is the rest mass, and "c" is the speed of light.
- The composite particle initial circular path is changed to an elliptic path with a minor axis smaller than the circular radius by the factor  $\sqrt{1 - (v/c)^2}$ .
- The composite particle elliptic path has an orbital period  $1/\sqrt{1 - (v/c)^2}$  times the period when at rest.
- Thus, mass growth, matter shortening, and time dilation predicted by this Newtonian Theory is the same as that predicted by Einstein's Special Theory of Relativity.

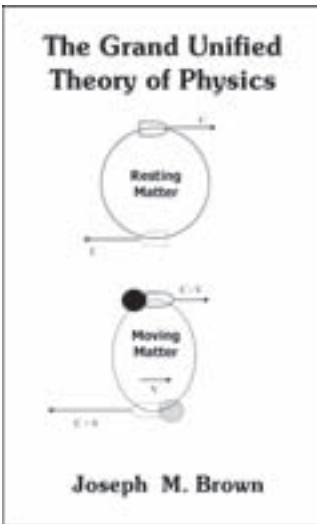
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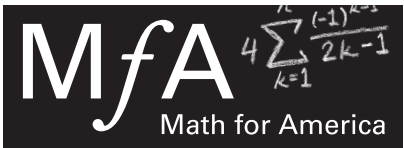


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# MIT Startup Garners Contract From DoD

Nanotech, from Page 1

ing Karen K. Gleason '82 is working with a team researching chemical vapor deposition to create water repellent fabrics that would reduce the weight of condensed moisture on a soldier's clothing.

In a similar vein, Robert S. Langer ScD '74, professor of chemical and biomedical engineering, is creating "switchable surfaces" that would undergo a change in properties, such as from hydrophilic to hydrophobic, in response to an outside stimulus.

Among the many research experiments being conducted by the ISN, long-term projects such as implementation of carbon nanotubes, which exhibit extraordinary strength and unique electrical properties, have elicited much excitement from the scientific community. Thomas called the nanotube, which has multiple applications ranging from combat jackets to artificial muscles, the "poster child for nanotechnology."

Another appealing aspect of the ISN is the Soldier Design Competition, sponsored in part by Raytheon, Boeing, and the Science Applications International Corporation. The competition, which pits students from MIT and the U.S. Military Academy against real world design issues, offers a total of \$16,000 in prize money to the top six teams. SDC, now in its third year, has seen a number of success stories, including the formation of RallyPoint.

RallyPoint, a startup company composed of three MIT students and an MIT lecturer, recently received a Phase II \$730,000 Small Business Innovative Research contract from the Department of Defense. Tony L. Eng '92, Byron B. Hsu '06, Forrest W. Liau '06, and David D. Lin '06 won second prize in the 2003 Soldier

Design Competition under the team name Surreptiles with a sensor-embedded glove capable of recognizing various tactical hand gestures. Three of the four were sophomores at the time of the competition; their novel idea has since grown into a valuable investment for the U.S. government.

"MIT has been a fairly good environment, and our professors have been very supportive," said Lin, who is majoring in materials science and took a semester off to co-develop RallyPoint.

"Everything you do is actually a learning experience," said Liau, also majoring in Materials Science. "We have been through so many critical challenges that it is hard to believe it has only been two years."

Only about four percent of small businesses that apply for the Small Business Innovative Research grant are accepted into Phase II of the program, placing the members of RallyPoint in a select group.

"We knew there were a lot of things against us," continued Lin, "we had to deal with the issue of credibility and convince others that our product would be usable."

RallyPoint's founders expressed a desire to give back to the MIT community that allowed for the creation of a product that may help firefighters, police officers, and soldiers perform their duty in a more efficient manner.

Other research projects through the ISN include energy absorbing materials, chemical and biological weapons sensing and counteraction, remote systems monitoring, and innovative materials for soldier systems.

More information about the Institute for Soldier Nanotechnologies as well as the Soldier Design Competition can be found at <http://web.mit.edu/isn/>.

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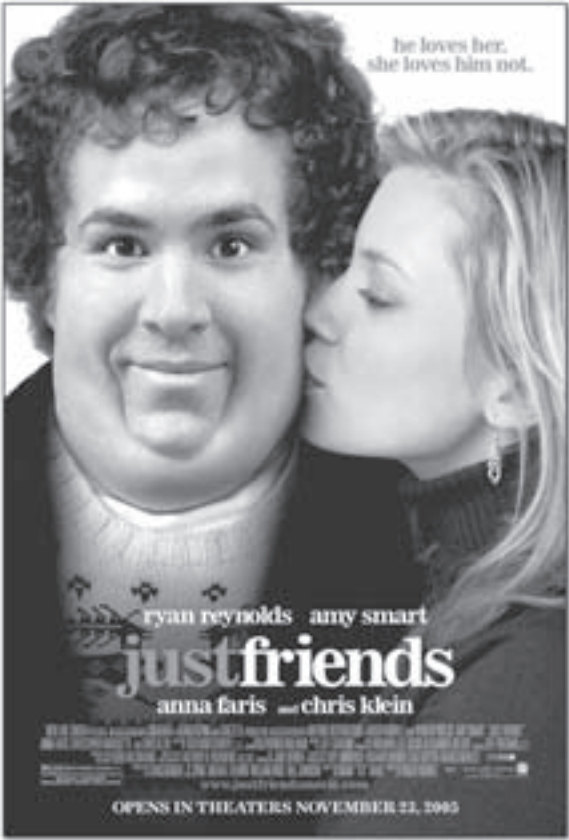


CNET Networks Information Session  
November 16, 2005  
5:30 PM in Room 4-159 (MacLaurin Buildings).

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# Proposal Would Raise Regulation of Biolabs

By Stephen Smith  
*THE BOSTON GLOBE*

Boston public health authorities will propose sweeping new safety regulations governing more than 1,000 research laboratories working with dangerous germs in universities, hospitals, and biotechnology companies across the city.

The proposed rules would for the first time require labs studying biological agents to receive safety permits from the city and would also break ground by mandating that neighborhood representatives sit on internal safety boards. Regular inspections of labs by internal reviewers and by a city inspector would also be ordered.

Facilities working with especially potent viruses and bacteria, including those that have been identified as potential tools for bioterrorists, would have to provide a list of those materials to city health authorities, as well as an explanation of the research. Until now, only the federal government had access to such sensitive information.

The proposal represents a significant expansion of lab regulation. Until now, city and state governments have usually become involved in research practices only if something went seriously wrong. Researchers must provide documentation of safety practices when they seek federal grants, but no special federal operating permits are necessary.

Boston health authorities said that after examining lab regulations in other cities, they concluded that their proposal would constitute the most stringent municipal regulation of biological research in the nation.

"This does seem to be an important time to guarantee that laboratories that are increasing in the city and around the country are operating at the optimal safety level," said John Auerbach, executive director of the Boston Public Health Commission.

The proposed rules emerge 10 months after public disclosure that three Boston University scientists had fallen ill while working with tularemia, a lethal bacterium. City health authorities acknowledged Monday that the proposal is a direct response to the tularemia exposures, as well as long-festering concerns from neighbors about the development of a high-security lab at BU where scientists would be capable of working with some of the world's deadliest germs.

"This will give us some standards to make sure these labs are being monitored," Boston Mayor Thomas M. Menino said. "These regulations go a long way to show the city is serious about having biolabs in the city and about the safety of them."

The proposal represents six months of work by an eight-member laboratory safety panel that was convened by public health authorities earlier this year after the tularemia exposures became public. The panel included laboratory safety specialists from Harvard University and MIT.

The regulations must be approved by the Boston Public Health Commission before they can take effect. The commission, along with research institutions, will get a first look at the proposal Tuesday afternoon.

University and hospital representatives contacted Monday night either had no comment or said their institutions would defer making statements until the rules had been formally presented.

Public health officials said Monday night it was unclear how much compliance with the proposed regulations would cost research institutions. The overwhelming majority of labs covered by the proposal are at the city's research universities and hospitals.

Klare Allen, the leader of an organization that opposes BU's planned high-security lab, characterized the proposed rules as "a great first step. It's something that should have been in place a long time ago."

"If they were being inspected all along, then the scientists wouldn't

be hurting themselves," said Allen, president of Safety Net, a group that monitors developments affecting the lives of Roxbury residents.

But Allen said she doubted the regulations would allay concerns about the Biosafety Level 4 lab that BU wants to build on its South End medical campus. Scientists in that lab will research vaccines and treatments against deadly illnesses such as ebola, plague, and, potentially, avian influenza.

The city had previously regulated a select group of labs doing specialized research involving DNA transfers from one organism to another. The proposed rules greatly extend that oversight, Auerbach said.

Auerbach said fears that bird flu could ignite a global pandemic in humans had demonstrated the importance of studying such pathogens — as well as the dangers.

"We've come to understand as the Public Health Commission the importance of the work in high level laboratories," Auerbach said.

The proposal focuses in detail on the operation of internal panels at research facilities known as institutional biosafety committees. Those boards are charged with making sure that scientists abide by safety procedures designed to protect them and the public.

But the rigor of those committees varies institution to institution. The proposal being presented to the Public Health Commission would attempt to establish greater uniformity.

"The proposed regulations strengthen and broaden the responsibilities of the laboratory institutional biosafety committees," Auerbach said.

The safety panels, for example, would be required to report to high-level officials within universities and hospitals, a measure designed to give them real power. The boards would also be ordered to have annual meetings for the public, where research would be discussed, and they would be required to include at least one member of the public as a permanent member. The Public Health Commission would have to approve the public member nominated by the institution.

"There was a concern about the importance of having greater transparency," Auerbach said. "And we really want to guarantee that there's an independent, public voice and that the voice is from the areas surrounding the laboratories."

Institutions would not receive a permit from the city to operate labs unless they were abiding by the rules on internal safety boards. Those permits, Auerbach said, would be good for three years.

As a further guarantee of increased oversight, the institutional biosafety committees would have to conduct inspections at least once a year at lower-security labs and at least twice a year at higher-level labs. Such internal reviews are already mandatory at many research institutions.

The city is also close to hiring its first laboratory safety officer, who would make periodic visits to research facilities to ensure that sure they're operating safely. Violations of the new regulations could result in fines as high as \$1,000 a day per violation.

When the tularemia exposures were made public in January, health authorities conceded that they did not have a process in place for monitoring labs working with the most dangerous germs. The proposed regulations aim to change that by requiring scientists to report the details of that kind of research.

Auerbach said the city will adopt measures to assure that information about sensitive research is "protected under the highest level of security."

The proposed rules also include a shield of protection for whistleblowers who would want to provide information about troubling practices in labs.

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# Foreign Enrollment Decline Slows Down

## Trend Suggests Recovery From 2001 Attacks

By Alan Finder  
THE NEW YORK TIMES

The number of foreign students enrolled in American universities declined slightly in the 2004-5 academic year, according to a survey released yesterday, suggesting that a more significant drop that took place in the aftermath of the terrorist attacks in 2001 might be abating.

About 565,000 students from foreign countries were studying in undergraduate and graduate programs at American universities, a decline of 1 percent from the previous academic year, according to an annual survey by the Institute of International Education that was financed by the State Department.

A survey released by the organization last year showed that foreign student enrollment had declined by 2.4 percent in the 2003-4 academic year, the first decrease in foreign students in three decades.

A related survey released last week by the Council of Graduate Schools showed that the number of international students entering American graduate schools increased 1 percent this year. The report was based on a survey of a sample of graduate institutions.

University officials have offered several reasons for the drop in foreign students after 2001, including difficulties students have experienced in obtaining visas, especially in scientific and technical fields, and the increased cost of tuition. There has also been more competition from universities in Britain, Australia and New Zealand, as well as a significant expansion in the capacity of universities in India and China.

India, with more than 80,000 students, and China, with more than

62,000, send the largest number of students to American universities, the Institute of International Education survey found. Many students from South Korea, Japan, Canada and Taiwan are also enrolled here.

A growing number of American students are studying abroad, the institute also reported. The number increased 9.6 percent in the 2003-4 academic year, the institute found, after growing by 8.5 percent the previous year. More than 191,000 Americans are studying for academic credit in international universities, with notable increases in China and India.

Foreign students in the United States spend about \$13.3 billion in tuition, living expenses and related costs. In many schools they account for the majority of graduate students in science and engineering.

**Solution to Crossword**  
*from page 8*

B	A	R	B		A	T	T	N		N	E	P	A	L	
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S	W	O	O	N		E	N	N	E		E	S	S	E	

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# Who should use mental health services?

Any student who is having troubles with stress, substance abuse, or mental health issues, should feel free to come to the mental health service at MIT Medical. Typical mental health issues include difficulties with relationships, family stresses, school stresses, break-ups, anxiety or worry, questions about sexual identity, eating issues and depression. Often these things are affecting the student’s ability to do his or her school work or enjoy things that usually are a source of pleasure.

## What services does the MIT Mental Health Service provide?

MIT Mental Health Service works with individuals, couples, groups, and families. Services include evaluation, treatment (both psychotherapy and psychopharmacology), referrals, and urgent care. The Mental Health Service staff is comprised of a diverse group of clinicians from different disciplines and different approaches to psychotherapy including psychodynamic and cognitive behavioral therapy. The Mental Health Service offers many different therapy, support, and discussion groups. Mental health clinicians will listen to the needs of students, discuss the various types of treatment available, and make appropriate recommendations.

## Is everything in a mental health visit really 100% confidential?

Everything that a student tells a mental health clinician is privileged information. This means that the information cannot be given to any other person without their permission. There are a few exceptions: 1) if the student is in serious danger of harming his or herself or someone else, then the clinician can notify other people in order to prevent harm; 2) if the student is involved in the abuse or neglect of a child or an elderly person, then the clinician is mandated to inform the appropriate agency.

This is one of a series of mental health FAQs developed by SHAC (Student Health Advisory Committee) with input from MIT Medical’s Mental Health Service. More questions and answers on mental health issues are available online.

Go to <http://web.mit.edu/medical> to find answers to the following questions:

- ▶ **What should I do if I am worried about a friend or think he or she may want to harm his or her self?**
- ▶ **Sometimes I feel sad, other times overwhelmed but usually I get over it. Would going to MHS be helpful to me?**
- ▶ **How do I make an appointment?**
- ▶ **What should I expect at my first visit?**
- ▶ **Does it cost anything to use the mental health service at MIT Medical?**

To learn more about SHAC membership, look out for our “Turn the Tables: Examine Medical” event, or visit our website <http://web.mit.edu/medical/student>.

**MIT Mental Health Service**  
MIT Medical, E23-3rd Floor  
For appointments and information (617) 253-2916  
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## Cambridge City Council Election Results

Candidate	First-Place Votes	Round Elected
Anthony D. Galluccio*	2001	1
Michael A. Sullivan*	1524	6
Marjorie C. Decker*	1464	9
Henrietta Davis*	1459	9
Timothy J. Toomey*	1432	10
Brian Murphy*	1236	10
Denise Simmons*	1330	10
Craig A. Kelley	1042	11
Kenneth E. Reeves*	1207	11

SOURCE: CITY OF CAMBRIDGE WEB SITE

Winners are listed in order of election. Candidates are elected when they receive a total of 1608 votes. After each round, surplus votes for elected candidates and votes for candidates with the lowest number of first-place votes are transferred to the remaining candidates listed next highest on those ballots. Final results will not be available until Friday when overseas absentee ballots are counted. Of the nine incumbents running, only David P. Maher was not reelected. \* indicates incumbents.

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**Ms. Monika Schleier-Smith**  
Physics

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The Hertz Foundation would like to extend its congratulations to **Massachusetts Institute of Technology** for attracting these Fellows to their graduate program.

See [www.hertzfoundation.org](http://www.hertzfoundation.org) for more details.







# Women's Ice Hockey Team Suffers 10-0, 12-0 Defeats

By Mindy Brauer  
DAPER ASSISTANT DIRECTOR OF SPORTS INFORMATION

The MIT women's ice hockey team dropped its first two ECAC East contests of the season, falling by a margin of 10-0 to New England College on Friday night, and by a margin of 12-0 to Saint Anselm on Saturday.

On Friday, Elizabeth Ross tallied five assists and a goal for a game-high six points as the New England College Pilgrims improved to 2-1-0 on the year and also in conference play.

Kirsten Mackenzie put NEC on the scoreboard 4:13 into the contest

by connecting on feeds from Ross and Erin Shepard during a power play. Shauna Pires extended the lead less than two minutes later on passes from Jaime Collins and Kaitlyn George. Ross posted a goal at the 7:02 mark and then set-up Mackenzie for a goal seven minutes later. George gave the Pilgrims a 5-0 lead by converting a pass from Pires.

In the opening minutes of the second frame, MIT generated some offensive pressure of its own, but NEC goalie Christina Aiello turned away every shot. The Pilgrims picked up right where they left off as they added two more goals on assists by Ross. Emily Tanguay put in a shot from the left face-off circle after 5:34 had expired and Sarah Tracey poked

the puck in just past MIT netminder Sally W. Simpson '09 just over three minutes later.

Jennifer Carboni and Sarah Graham each earned a point as a goal by Jessica Donnelly gave the Pilgrims an 8-0 lead after 2:19 had elapsed in the final frame. Collins notched an unassisted goal and a goal by Tracey off a feed from Ross closed out the scoring for NEC.

In the net, Simpson collected 52 saves for the Engineers while Aiello made 13 stops for NEC.

## Saint Anselm defeats MIT

A total of 16 players from Saint Anselm College tallied at least one point in its 12-0 victory over MIT in ECAC East women's ice hockey action on Saturday. Emily Lapworth and Cindy Lebel led the way for the Hawks (3-0-0, 3-0-0 ECAC East) by distributing three assists apiece.

Saint Anselm opened the scoring three minutes into the contest when Kathleen Twomey converted a feed from Lapworth for a short-handed goal. Danielle Campbell initiated a four-goal run at 14:40 after connecting on passes from Lebel and Kendall Junta. Shellie Swan capped the opening period scoring spree with an unassisted tally with 34 seconds remaining for a 5-0 lead.

Swan lit the lamp again after 55 seconds had expired in the second stanza off a set-up by Lauren Struzik and Kelsey Hunt. The Engineers' (0-4-0, 0-2-0 ECAC East) defense then asserted itself, resulting in over



STANLEY HU—THE TECH

**Goalkeeper Shauna J. Moran '06 makes one of her 45 saves during the women's 12-0 loss to Saint Anselm college on Saturday, Nov. 12 at the Johnson Athletic Center. The team has suffered a four-game losing streak going into this Saturday's game against the College of the Holy Cross.**

15 minutes of scoreless play. Jessica Tobin ended the drought at 16:16 when she connected on feeds from Campbell and Lapworth. The Hawks extended their lead to 8-0 with a power-play goal courtesy of Brittany Kretzman with 15 seconds left on the clock.

Jenna Brown posted her first goal of the season when she converted a pass from Mollie Welch 4:24 into the final period. MIT's best chance to end the shutout came almost a minute later when it was awarded a power-play. The Engineers won the ensuing face-off and Rachel Longley

chased down the puck. However, her shot was deflected away as Saint Anselm netminder Kerri Clarke dove to her left side for the save. The Hawks tacked on three more goals to close out the scoring with Lebel picking up a pair of assists.

In goal, Shauna J. Moran '06 collected 45 saves for MIT. Andrea Berlin made two saves in two periods of action for Saint Anselm, while Clarke stopped one shot in the third period.

The next game for MIT will be on Saturday, Nov. 19 when its hosts the College of the Holy Cross at 3 p.m.



DAVID TEMPLETON—THE TECH

**Rebecca R. Romatoski '06 battles an opponent from Saint Anselm for the puck last Saturday in Johnson Athletic Center. MIT lost 12-0.**

# Extra Effort Pays Off for Kilpatrick, Mancuso

Football, from Page 20

pressure on him."

All that pressure seemed to bring out the best in Mancuso, especially in his 387-yard, four touchdown game against Nichols College. This performance earned him a Boston Globe Gold Helmet award, arguably the region's top weekly honor in football, making him only the third Gold Helmet recipient in Tech history, and first in the last 10 years. He also earned a mention as a Division III National Player of the Week by

the Football Gazette and NEFC and ECAC Offensive Player of the Week honors.

"He was probably the most accurate passer I've played with, with a great field sense," Kilpatrick said. "Just being around him you could tell he had played a lot of football and had a good feel for the game. I'm happy for him, that he was able to break all those records."

Conversely, the impact that seniors like Kilpatrick had on the team was not lost on the freshman quarterback.

"We just followed suit with what [the seniors] told us needed to be done, and we just went out and played hard," Mancuso said.

While in general, members of the student body may not quite understand the rigors of playing football, they certainly can appreciate the difficulty of the curriculum, and the fact that everybody attending the Institute needs to buckle down and study more than once in a while to succeed academically. This difference between MIT athletes and the athletes at many other schools is not

lost on opposing teams.

"We've always been a target for the other teams because we're a brand name," remarked Kilpatrick, "But I've always welcomed that, always enjoyed that, making them feel bad when we beat them."

Both Kilpatrick and Mancuso have high hopes for the future of the team, but noted that players have to stick around.

"My guess, my hope, is [Mancuso] will be able to lead the team to some winning seasons. That's really the goal, to return to the form we had in the late nineties," Kilpatrick said. "Attrition is a problem in any Division III football program without scholarships. The young guys have to stick around and work hard in the offseason, but certainly there is potential there. We had a lot of good freshmen step it up this year."

"We have to have people stay around," Mancuso said. "People have to be enthusiastic. They gotta realize we're not going to have the numbers that the other teams have, so we probably gotta put more effort in than the other teams in the league."

Still, all in all, simply talking to both made it obvious that for them, MIT football was about having fun, competing, and enjoying the camaraderie of being on a team.

"It's a small, tight-knit group," Mancuso said. "I wouldn't pick one guy there that I wouldn't want to be my brother outside of football, even."

"I'm real thankful to MIT for continuing to have a program," said Kilpatrick, "And I'm thankful to Coach Smith for giving me the chance to play."

The football program is thankful for the way both Kilpatrick and Mancuso have excelled.

Seeking junior or senior majoring in a science, preferably **chemistry**, for part-time work at a **scientific journal**. You should have: one year of organic chemistry, preferably biochemistry, familiarity with ChemDraw and Excel, an interest in publishing and web production, and attention to detail. Hours: 2-3 hours every Thursday morning or afternoon plus 2-3 hours on Monday afternoon. Rate: \$12-15/hour, depending on experience. Please contact chembio@boston.nature.com

# Yellow Belts Have First Chance to Compete

Taekwondo, from Page 20

and Liao placed second, and the B2 team (Darren M. Chun '07, Jaroslav Labaziewicz G and Iliya T. Tsekov '08) placed third.

The C team sparring at Cornell was important for the MIT team because it was the first tournament for many new beginners, who had recently joined the club after being introduced to taekwondo by club Head Instructor, Dan Chuang, in the first quarter PE class.

Tournaments are a great opportunity for the new beginners to get to know the rest of the club. At Cornell, the yellow belts were able to really appreciate the strength and determination of the team.

"Rene [Chen] and Sharon [Lawrence]'s matches were amazing," said John T. Wong '06 about their match against Cornell A1. "Rene was down ridiculous points and came back and won it 13-12 in the last seconds. Sharon won in overtime. Just the spirit of the team around that ring was amazing."

In forms, the red belts demonstrated their proficiency and dominated their divisions. Huang and Ho captured the gold and silver for men's forms, and Chen and Zhou easily secured gold and silver in women's red belt forms. Liao also won a bronze in the men's blue belt forms division.

## Solution to Sudoku

from page 9

1	4	2	5	6	9	3	8	7
5	9	6	8	7	3	1	2	4
3	8	7	4	1	2	6	9	5
6	7	5	3	4	8	9	1	2
8	3	1	9	2	7	4	5	6
9	2	4	6	5	1	7	3	8
7	6	3	2	9	5	8	4	1
4	5	8	1	3	6	2	7	9
2	1	9	7	8	4	5	6	3

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# Volleyball Finishes 29-9 Season With Second Round NCAA Loss

Volleyball, from Page 20

Briana J. Stephenson '07, and an ace by Frances M. Rogoz '07 allowed the Engineers to maintain the deficit while they kick-started their offense. Dill, seeing the situation for the impending loss that it was, called a time out and attempted to rally the troops. Whatever he said seemed to work, because when the Engineers returned, they were a changed team. Instead of her expected set, Zimmerman jammed one in for a kill. Subsequent kills by Ellen E. Sojka '08 and Alexandra N. Huston-Carico '08, along with an ace by Zimmerman continued the charge. When Arlis A. Reynolds '06 took the serve, she helped the Engineers to within three, taking them on a five point run. Shaken by the sudden loss of their eight point cushion, Colby College took a time out, their first of the match. With the score at 22-19, the Engineers were undaunted and scored four more points in quick succession. A bad set by the Engineers tied the game again, but they quickly regained the lead on a kill by Rogoz. The back and forth continued as the score reached 26-26. A service ace by Jordan, accompanied by a kill by Rogoz and a missed tip by Col-

by gave game point to MIT, ready to complete the comeback with the score at 27-29. But the Mules scored four straight points, giving the most hotly-contested game of the match to Colby in a devastating turnaround. In the third game, the Engineers hit their stride, as Rogoz and Huston-Carico made kill after kill. Taking the lead from the very beginning of the game, Hunting regained her confidence as she landed her serves and reeled in two aces. Zimmerman grabbed a tip and Jordan made two aces. Sojka and Stephenson were on fire, avoiding the blocks and landing kills like the regular season. Colby's Cait Cleaver was incredible, keeping Colby in the game even as MIT heated up. Her height and her power made her an great player and the anticipation in the crowd as she went up for a kill was palpable. She was impossible to defend against when set up well. MIT's lead was threatened as Kirby took the serve for the Mules again, landing two aces before a long serve, bringing the score to 20-22. On a Tech game point, Zimmerman took the serve. A collision in Tech territory raised the specter of the last blown lead, but MIT rallied, and on a Zimmerman set, Sojka came in for the kill, giving MIT their first game

of the match, 30-24. In the final game of the match, MIT was still hot, keeping within two points until late in the game, but Cleaver was unstoppable. As the match neared its end, the play took on a frantic pace, as the game plans and careful strategies were replaced by a desperation to stay in the game. With the Engineers down, 29-25, after a blocking battle at the net, Rose Zhong '08 came up with a kill that kept MIT in the game. As Jordan served with the game on the line, the crowd was on their feet, deafening as they waited for the volley. After a short volley, MIT missed a return, giving game and match to Colby College. MIT came in first in the New England Women's and Men's Athletic Conference with a 29-9 record for the season to qualify for this tournament. In the first round they defeated Bridgewater State in a decisive 3-0 victory. In that match, Stephenson pulled in a team high 13 kills, while Zimmerman gave out 41 assists, along with 11 digs. Rogoz came up with 10 kills, and Reynolds held the defense strong with 23 digs. Colby College went on to defeat Tufts University in the third round to win the Regional Title.

# Suspension of Owens by the Eagles A Time for Others to Give Thanks

NFL, from Page 20

East a happy division to play in. We all thought coming into the season that the Eagles were going to run away with the division. Everyone felt as though second place and a wild card spot would be the only reasonable goal for us. However, now that you have been suspended by the Eagles, we are all blessed with newfound hope for winning the NFC East. On top of that, we look like a respectable division once again. Yours truly, The Washington Redskins, the New York Giants and the Dallas Cowboys

psyche of the Eagles, we would still be second class contenders, but our records right now look great getting ready for the playoff run. Thanks again, The Carolina Panthers and the Atlanta Falcons Dear Terrell Owens, Thank you for taking all the heat off of us for being complete under-achievers. Our teams have had major injuries, and as a result, you see the

Chicago Bears sitting happily on top of our division. True, this is an utter disappointment, considering that we were both playoff teams from a year ago. We are trying our hardest to dig ourselves out of this hole, but the decreased media attention really helps to take the pressure off of us. Any other year, and we would be the laughingstock of the NFL, but this is a special year, all thanks to you. Your colleagues, Brett Favre and Daunte Culpepper

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Dear Terrell Owens, Thank you for leaving us before causing a real ruckus in San Francisco. We thought that your problems with Jeff Garcia would be the end of this organization. True, we did take a major step backwards after you left, but I think overall, we are a better ball club without you. We appreciate the fact that we parted ways, or else we might be in the difficult contract situation that Philadelphia is in right now. Best of luck, The San Francisco 49ers Dear Terrell Owens, Thank you for not joining the Ravens. Had you come to this team, we would be the laughingstock of the NFL right now. Thanks for whining to the NFL and getting yourself routed to the Philadelphia Eagles instead. At the time, I might have thought that it was a terrible situation for us. However, I have since understood that you just did not want to make the Baltimore Ravens a circus team. We appreciate your consideration. Your former friend, Ray Lewis Dear Terrell Owens, Thank you for taking the Eagles out of contention in the playoff picture. I don't know if they will be contenders for the Super Bowl still, but our chances of going to the big game just got a lot better now that you are suspended from Philadelphia. With the Eagles struggling, we are the two teams who have the best shot at making it to the NFC Championship game. Had you not destroyed the



## Ask a MedLink

### My birth control pills got trashed!

**Dear MedLink:** The cleaning lady threw out my birth control pills when I was halfway through taking them. I heard it's okay just to start another pack and skip my period. Is that true? —**Cleaned Out**

**Dear Cleaned:** That is a great question! Everyone knows you are supposed to take the pill every day, at the same time, without missing pills. But pill packs can be thrown out accidentally or left behind when traveling. And what about those times when your period is going to coincide with a vacation or sports competition? Is it okay to use another pill pack back to back?

I took these questions to MIT Medical OB/Gyn physician Dawn Anderson, M.D. and MIT Medical health educator Laura Stuart. Both emphasized the importance of talking with your clinician about the instructions for your specific prescription, but they were able to provide some general answers to these questions.

First, they told me, if you lose your pack of pills, it is always okay to start another pack—either in the same place, or, if you don't remember where you left off, from the beginning of the pack. As long as you haven't missed any days of taking pills, your risk of pregnancy is not increased by continuing on from the same spot in a new pack.

In addition, Anderson said, it's often safe to skip placebo week and just go on to the next pack of pills. "With most types of birth control pills," she noted, "you can actually take active pills daily for up to 12 weeks and schedule a withdrawal bleed at your convenience." (After 12 weeks, she cautioned, one would risk the overgrowth of uterine lining cells—a condition known as endometrial hyperplasia—which can cause unusually heavy menstrual flow and bleeding between normal menstrual periods.)

Many physicians have begun advocating modified pill regimens of this sort, Anderson noted, because recent research indicates that experiencing fewer periods a year can actually cut your risk of ovarian and endometrial cancer. Why? Because fewer ovulations mean fewer cell divisions, and that means fewer opportunities for cancerous cells to be activated. "In fact," Stuart added, "the new brand of birth control pills, Seasonale, is not a new hormonal formulation at all, but a simple repackaging of a commonly used pill that covers three months' time, instead of one."

Remember, it's never safe to make changes in your oral contraceptive routine without first talking with your physician, but I hope this answer gives you some idea about your options and a few potential topics for discussion with your clinician. And on your next visit home, I'd also recommend tucking away your current pack of pills in a spot the cleaning woman is unlikely to stumble upon! —**Ingrid '06**



**Do you have a question?** Submit questions by: **email:** [askamedlink@mit.edu](mailto:askamedlink@mit.edu) **anonymous online form:** <http://web.mit.edu/medlinks/www> **campus mail:** Ask A MedLink, E23-493

We can't respond individually, but we'll answer as many questions as we can in this space. And you can always talk with a MedLink in person; see [web.mit.edu/medlinks/www/](http://web.mit.edu/medlinks/www/) to find the MedLink(s) in your living group.



SPORTS

Women's Volleyball Beaten 3-1 By Colby in NCAA Tournament

By Caitlin Murray  
STAFF WRITER

Despite our reputation, there are those at MIT who crave the sports fever and school spirit so commonplace at other colleges. For the "Superfans" who attended the semifinal match of the NCAA Division III New England Regional volleyball tournament where MIT played Colby College, it was a chance to enjoy just that.

A small, devoted cadre of 25 MIT fans sat amidst a screaming throng of 450 Colby College undergraduates, family, and alumni. Although Tech fans — including a member of the men's volleyball team sporting paint on his chest and a volleyball as a hat — held their own, the noise in the gymnasium was enough to unnerve even the fourth-seeded, 29-9 MIT

women's volleyball team.

Whether it was the noise or sheer nerves at having made it to the second round, the Engineers got off to an unsteady start. Despite scoring the first point of the match on a serve by Carrie C. Buchanan '08, MIT was put on the defensive from the beginning.

Colby went ahead on a kill by their star, Cait Cleaver and maintained that lead. In addition to a half a dozen bad serves, MIT was plagued by miscommunications. Twice in the first game, two Engineers backed away from an easy ball on the assumption that the other would field it, letting it drop for a Colby point.

Despite a few excellent plays by Austin Zimmerman '06 and Caroline D. Jordan '06, the Engineers spent most of the first game getting their feet under them. Tech fell quickly to the Mules, 30-22.

The second game looked to be a repeat of the first, as the Mules took the lead quickly on Kendall Kirby's serve. With two aces and two short volleys off her serve, Kirby got Colby off to a 4-0 start early in the game. Missed blocks, net faults, short serves, and long balls increased their lead to a nearly insurmountable eight points at 12-4.

At that point, however, the Engineers began to get their rhythm back. Midway through the second game, Colby fans began heckling the server. The chants seemed to have the opposite effect, focusing the Engineers as they went to serve. The number of bad serves dropped dramatically.

As the Colby crowd bellowed, the Engineers began to plug the leak. Zimmerman's kill to the back corner, a couple of kills and blocks by

Volleyball, Page 19

MIT Sport Taekwondo Easily Tops Cornell in Weekend Tournament

By Bobby Ren  
TEAM MEMBER

The MIT Sport Taekwondo team went to Ithaca this past Saturday to compete in their second tournament of the season. The tournament was hosted by rival Cornell, and attended by 13 schools from the Ivy Northeast Collegiate Taekwondo League (INCTL). With the momentum of their victory at the MIT tournament behind them, the Sport Taekwondo team dominated again, this time winning by an even larger

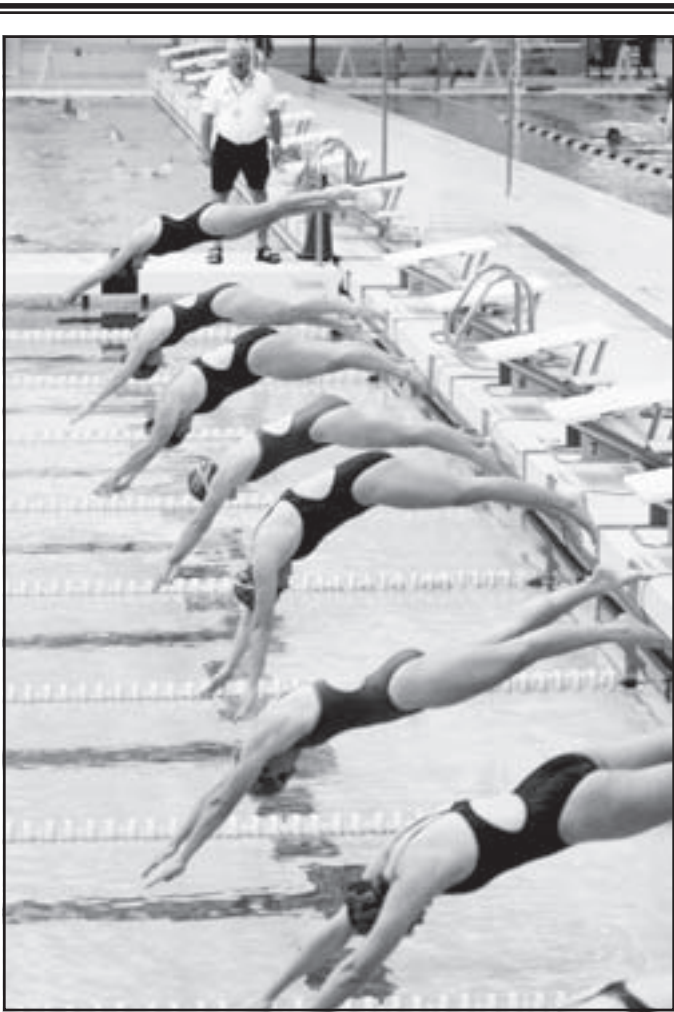
margin. MIT's final score of 634 more than doubled the second place finisher, Cornell, who had 268.

One of the highlights of the tournament was a dual victory by the Women's A teams in sparring. After defeating West Point, Rene R. Chen '07 and Sharon A. Lawrence '07 (Women's A2) met up with Alicia Y. Zhou '06, Erica Y. Chan '07, and Rosemary E. Pike '07 (Women's A1) in the finals, where they took the silver and gold, respectively. This was the second time this season that MIT's women's teams have taken these top two spots.

Men's A1 (Richard Sinn '06, Conor F. Madigan G, Bobby B. Ren G, Forrest W. Liau '06 and Jordan B. Brayanov G) easily took the men's gold. Chan and Ren each won a gold in their respective blackbelt forms division as well.

In B league sparring, Zhou, Chen and Lawrence fought through a tough bracket, winning a few matches by knockout. They placed second to the Royal Military Academy of Canada due to injury. The Men's B1 team of Ryan B. Huang '06, John C. Ho G

Taekwondo, Page 18



DAVID TEMPLETON—THE TECH

MIT and Coast Guard Academy women dive off the blocks in a freestyle event last Sunday in the Zesiger Center pool. The Engineers won 168-105.

UPCOMING HOME EVENTS

Wednesday, Nov. 16, 2005

Varsity Wrestling vs. Roger Williams University and Bryant University  
du Pont Gymnasium, 6 p.m.  
Varsity Women's Swimming and Diving vs. Wellesley College  
Zesiger Sports and Fitness Center, 7 p.m.  
Varsity Men's Ice Hockey vs. University of New Hampshire  
Johnson Ice Rink, 7 p.m.

Football's Kilpatrick, Mancuso Quietly Set Records

By Albert Ni  
STAFF WRITER

The end of October marked the close of a respectable season for MIT football in which they managed three wins and a fourth place finish in the seven team Boyd Division of the New England Football Conference (NEFC). It also marked the end of an era, and the beginning of another, as numerous Institute records were set, mostly by senior wide receiver Thomas J. Kilpatrick '06 and quarterback Richard A. Mancuso '09.

After a fourth consecutive solid campaign, Kilpatrick established

himself as the most prolific receiver in MIT history. His career totals of 146 receptions for 2182 yards shatter the old marks of 118 receptions and 1633 yards. Kilpatrick also walks away from Engineer football with records for the most receiving yards in a season (971 in 2003), and fittingly, the most receiving yards per game in both a season and over the course of a career. His records are a testament to the consistent high level of play he has displayed game in and game out over his four seasons.

With Kilpatrick capping off a brilliant career, 2005 felt like a changing of the guard, thanks to the emergence of Rick Mancuso. After missing the

beginning of the season due to injury, Mancuso was unable to make his Tech debut until the fourth quarter of the third game. By the end of the season, he was already the owner of nearly every major Institute single game and single season passing mark. Mancuso set Tech's single season passing mark with 1,587 yards, as well as the single game mark with 387 yards against Nichols College, shattering the old record of 291 yards. In that game, he also completed 25 passes, an MIT single game record, and had four touchdown passes, tying a record.

The individual accomplishments for both players are indisputably impressive, but both are quick to deflect

praise and preach team goals, proof of the team-oriented mindset instilled by Coach Dwight Smith.

"We had something Coach Smith said all year, which was that we had to win our individual one on one records," Mancuso said. "Breaking a record is just everybody on the team winning their one on one battle."

"The records mean a lot, but I like to emphasize football as a team sport," said Kilpatrick. "A lot of credit goes to my teammates, I've played with five quarterbacks and a lot of credit goes to the QB's, linemen, and all the other guys."

Kilpatrick played in 2001, 2002, and 2003 before electing to go to Japan last year. While attrition is generally high due to the demanding academics at MIT, rejoining the team this year was a no-brainer for him.

"When I think back, I've played with some great players, and these guys have been some of my closest friends," Kilpatrick said. "I'm real glad to have been a part of it."

Mancuso echoed this sentiment. "I'm just glad Tom came back to get his fourth year," Mancuso said, "He could have just said 'I played my years here, and I'm done.'"

While Kilpatrick was in the starting lineup from day one, the fate of Mancuso's season was up in the air due to an injury suffered in high school. Knowing the hard work put into rehabilitation made the season's successes all the sweeter for Mancuso, "I feel like I've been given what athletes dream of, that's a second chance."

"Rick did a great job this year," remarked Kilpatrick. "He got hurt real bad his senior year in high school, and I was afraid he wasn't going to be able to come back this year. We had some injuries in the running game, putting even more

With Owens Suspended, Others Should Give Thanks

By Yong-yi Zhu  
ASSOCIATE SPORTS EDITOR

With Thanksgiving coming up soon, I would like to take the time to send out some thank you notes to teams

around the NFL. This time, they are directed

at Terrell Owens, the wide receiver who was recently suspended by the Philadelphia Eagles after an interview in which he criticized the Eagles for not recognizing his accomplishments. He also has complained all season long about a contract renegotiation one year into a long-term contract. Here are some sample letters that I found. As you can see, Owens has affected many people this year.

Dear Terrell Owens,

Thank you for making me look like an absolute hero. Right now, my Giants are on top of the NFC East and loving every minute of it. With the Eagles not in the forefront of the playoff picture, I can lead my Giants to the NFC East Divisional lead. Had you been there, the Giants would not be at the top of the division, and I would not be nearly as big of a story as I am now.

Sincerely,  
Eli Manning

Dear Terrell Owens,

Thank you for making the NFC



STANLEY HU—THE TECH

Wide receiver Thomas J. Kilpatrick '06 (left) and quarterback Richard A. Mancuso '09 smashed MIT football records this year in their respective positions. The veteran Kilpatrick totaled 146 catches and became the first MIT athlete to accumulate 2,182 yards in receiving, and in his rookie start Mancuso amassed 135 pass completions for 1,587 yards, a season-high record for an MIT quarterback.

Football, Page 18

NFL, Page 19